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Kevin Norris

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# University of Scranton

## Graduate School



St Thomas College





# **Bulletin of the University of Scranton**

Volume 68

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## **The Graduate School**

For Men and Women

**Scranton, Pennsylvania 18510**  
**Phone: (717) 961-7600**

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"University of Scranton"  
Scranton, Pennsylvania

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Pennsylvania Department of Education  
Middle States Association of Colleges and Secondary Schools  
National Council for Accreditation of Teacher Education  
American Chemical Society  
The Council on Rehabilitation Education

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Pennsylvania Association of Colleges and Universities  
Pennsylvania Association of Graduate Schools  
Pennsylvania Council for International Education  
The Council of Graduate Schools in the United States

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# UNIVERSITY OF SCRANTON GRADUATE SCHOOL

## CALENDAR—FALL 1985

September 3 . . . . .	Registration for Fall semester HOURS: 3:00-8:00 p.m.
September 3 . . . . .	Fall semester begins
September 17 . . . . .	Final day for late registration and change of course
September 17 . . . . .	Deadline for filing Comprehensive examination and Degree applications (AVAILABLE IN GRADUATE OFFICE)
October 5 . . . . .	Comprehensive examinations
October 17 . . . . .	Last day for submission of graduate thesis and scholarly paper (FINAL DRAFT)
November 26 . . . . .	
December 1 . . . . .	Thanksgiving holidays
December 16-19 . . . . .	Fall semester examinations
December 19 . . . . .	Fall semester ends

## CALENDAR—INTERSESSION 1986

January 2 . . . . .	Registration
January 2 . . . . .	Semester begins
January 30 . . . . .	Semester examinations
January 30 . . . . .	Semester ends

## CALENDAR—SPRING 1986

February 3 . . . . .	Registration for Spring semester HOURS: 3:00-8:00 p.m.
February 3 . . . . .	Spring semester begins
February 14 . . . . .	Final day for late registration and change of course
February 14 . . . . .	Deadline for filing Comprehensive examination and Degree applications (AVAILABLE IN GRADUATE OFFICE)
March 8 . . . . .	Comprehensive examinations
March 20 . . . . .	Last day for submission of graduate thesis or scholarly paper (FINAL DRAFT)
March 25-31 . . . . .	Easter holidays
May 15-21 . . . . .	Spring semester examinations
May 21 . . . . .	Spring semester ends
May 24 . . . . .	Commencement

### CALENDAR—SUMMER 1986

June 23 .....	Registration for Summer semester HOURS: 3:00-8:00 p.m.
June 23 .....	Summer semester begins
June 27 .....	Final day for late registration and change of course
June 30 .....	Deadline for filing Comprehensive examination and Degree applications (AVAILABLE IN GRADUATE OFFICE)
July 7 .....	Last day for submission of graduate thesis or scholarly paper (FINAL DRAFT)
July 12 .....	Comprehensive examinations
August 1-2 .....	Semester examinations
August 2 .....	Semester ends



## GRADUATE DEAN'S CONFERENCE

- Dr. Thomas P. Hogan ..... *Chair, Dean of the  
Graduate School*
- Dr. Michael D. DeMichele ..... *Professor of History and  
Chair of Department*
- Dr. John L. Earl, III ..... *Professor of History*
- Dr. Matthew Farrell ..... *Professor of Education*
- Mr. Joseph A. Hammond ... *Instructor of Business Administration  
and Director of M.B.A. Program*
- Dr. Maurice I. Hart, Jr. .... *Professor of Chemistry  
and Chair of Department*
- Dr. Raymond L. Kimble .... *Associate Professor of Education and  
Chair of Department*
- Dr. Eugene A. McGinnis ..... *Professor of Physics*
- Dr. John McInerney ..... *Professor of English and  
Chair of Department*
- Dr. John K. Stout ..... *Associate Professor of Human  
Resources*
- Dr. Joseph A. Szuhay ..... *Professor of Human Resources and  
Chair of Department*

(Four graduate students, who were not chosen when this catalogue went to press, also hold membership on the Graduate Dean's Conference.)

## GENERAL INFORMATION

The University of Scranton, the oldest Catholic institution of higher education in Northeastern Pennsylvania, was founded in 1888 as Saint Thomas College. It is chartered under the laws of the Commonwealth of Pennsylvania and empowered to confer Bachelor's and Master's degrees in the Arts, Sciences, Business Administration and Education. In 1938 Saint Thomas College became the University of Scranton, while four years later the Society of Jesus acquired title from the Catholic Diocese of Scranton and administrative control from the Brothers of the Christian Schools. Thus Scranton became the twenty-fourth of the twenty-eight Jesuit colleges and universities in the United States.

In 1950 graduate study in Education was initiated, the first Master's degree being awarded in June, 1952. Since that time more extensive programs were developed in Elementary Education, Psychology and Guidance, Educational Administration. Through courses at the University's Graduate School several State Certificates may be obtained. A graduate History program was first offered in 1955, while graduate curricula in English and in Business Administration are of 1960 origin. Graduate programs in Chemistry and Physics began in the Fall of 1967.

The University of Scranton's Graduate School offers programs of study leading to the degrees of Master of Arts, Master of Science, and Master of Business Administration. Students may obtain the M.A. only in English and history. The M.A. or M.S. may be obtained in secondary education, counselor education, elementary education, elementary administration, secondary administration, reading, biochemistry, chemistry, and physics. Students may obtain the M.S. only in rehabilitation counseling, human resources administration, solid state electronics, and general science. The M.B.A. has the following concentrations: accounting, finance, personnel and labor relations, production and operations management, and marketing.

A thesis is required in the M.A. programs except in English and history, which have thesis and non-thesis options. Students in the M.S. programs generally have the option of completing a scholarly paper or completing additional course work.

Generally, the master's programs require students to complete 30 to 36 semester-hour credits. The master's program in rehabilitation counseling, however, requires students to complete 48 semester-hour credits. All students in M.A. and M.S. programs must pass a comprehensive examination in their respective fields.

## **OBJECTIVES**

As one of the family of world wide Jesuit Colleges and Universities, the University of Scranton shares with them a common educational heritage and tradition. Its principal objective, therefore, is to lead the student to understand and to inspire him/her to fulfill that complex of dignities and responsibilities which man or woman, as a person and as a member of human society, is under God.

Specifically, as the university in this community, The University of Scranton labors to prepare its students to be thoughtful, active, effective citizens with a developed sense of leadership and a dedicated spirit of community service in the arts and professions.

More particularly, the Graduate School of this University aims 1) to communicate, interpret, intensify and integrate academic knowledge and relationships; 2) to develop professional attitudes, skills and competence in the student's chosen area of concentration; 3) to foster those value judgments so basic to human life and education—values which flow not only from a given discipline but also from Christian revelation and the Judaeo-Graeco-Roman, Western moral and intellectual tradition; 4) to promote research.

## **ORGANIZATION AND LOCATION**

The administration and supervision of the Graduate School is the responsibility of the Dean of the Graduate School. He is assisted by a Graduate Dean's Conference, an advisory committee, of which he is the chair. All questions concerning admission, candidacy and comprehensive examinations or modifications of course programs, must be submitted in writing to the Dean of the Graduate School. Decisions of the Dean of the Graduate School are final.

Requests for admission, transcript, letters to interested parties, and data concerning academic records should be made to the Graduate Office, University of Scranton.

The office of the Dean of the Graduate School is Room 310, St. Thomas Hall, Monroe & Linden Street. The office is open daily from 8:30 a.m. to 4:30 p.m. Monday through Friday. When classes are in session it is also open Monday through Thursday evenings. **FOR STUDENTS WHO WISH TO CONSULT THE DEAN THE COURTESY OF CALLING FOR AN APPOINTMENT IS RECOMMENDED.**

There are three regular semesters of graduate courses: Fall, Spring and Summer. Fall and Spring graduate courses are taught each evening, except Friday, at Monroe & Linden Street from late afternoon to 10:00 p.m. During the Summer term, graduate classes are scheduled Monday through Thursday for six weeks.

An Intersession Program is held between the Fall and Spring Semester. Please consult the special bulletin issued in December

regarding the details of this session.

Graduate courses in the M.B.A. program are usually taught at O'Hara Hall, Linden St. and Jefferson Avenue.

Time schedules for each course appear in the special bulletins published four times each year for Fall, Intersession, Spring and Summer programs, and can be obtained at the Graduate School Office.

### **COLLEGE MISERICORDIA**

Through a special arrangement, the Graduate School cooperates with College Misericordia, whereby students enrolled in the Graduate Program in Nursing at College Misericordia may complete six to nine credits at the University of Scranton. Inquiries should be directed to the Director of the Graduate Program in Nursing, College Misericordia, Dallas, Pennsylvania 18612.

### **APPLICATIONS**

All planning to enter the Graduate School should contact the Graduate Office for an application form. Completed applications, together with transcripts of undergraduate and graduate work taken elsewhere, should be in the Graduate Office two months before the applicant begins graduate study. **INTERNATIONAL STUDENTS SHOULD ALLOW AT LEAST THREE MONTHS.**

(With the permission of the dean, a person is sometimes permitted to register for courses before being admitted for graduate study. Under no circumstances, however, will he/she be permitted to register for courses in succeeding semesters unless he/she has been formally admitted to the Graduate School. The Graduate School will not prepare a transcript, issue a grade report, or verify that one has attended the Graduate School unless it has on file an application for admission and an official transcript attesting to the attainment of the bachelor's degree from an accredited institution.)

### **ADMISSION STANDARDS**

The admission standards and policies of the University of Scranton are free of any limitation, specification or discrimination on the grounds of race, religion, color, national or ethnic origin, sex, age, or handicap, except as provided by law.

An applicant for admission to the Graduate School must possess a baccalaureate degree from an accredited American college or university, or the equivalent from an international college or university. He/she ordinarily must have earned at least a 2.5 QPI. In addition, the applicant's undergraduate program must show the successful completion of all prerequisites for graduate work in the department



and/or program in which the prospective student plans to study. For exceptions to this requirement, please see page 8 for explanations of admissions categories.

Ordinarily, the applicant must submit the following to be considered for admission to the Graduate School:

- The graduate application properly completed, including the nonrefundable application fee

- Official transcripts of all previous undergraduate and graduate academic work completed at accredited institutions

- A personal statement of intention and qualification for graduate study

- Three references from persons familiar with the applicant's educational background and work or personal character

- A score earned on the Miller Analogy Test, Graduate Management Admission Test, or the Graduate Record Examination as required by the specific department or program

- International students are required to submit a TOEFL score.

As previously stated, applicants for admission to the Graduate School are expected to have earned a minimum grade-point average of 2.5 on a grading scale of 4.00. Individual programs may establish higher grade-point average requirements and use other criteria to judge candidates for admission. Kindly see the appropriate section of this catalog for the standards established by the separate departments and/or programs.

Admission to the Graduate School does not necessarily constitute admission to the department or graduate program in which the applicant plans to pursue studies. The establishment of specific standards by which an applicant is admitted to a specific program is the responsibility of the separate departments and programs; admission to the Graduate School is under the authority and responsibility of the Dean. In determining admission the Dean is aided by the Graduate Admissions Committee which is composed of at least two evaluators. Admission decisions are based on an evaluation of all materials submitted by the applicant in support of the application. The Admissions Committee seeks evidence that the applicant is likely to make a contribution to research or to the advancement of a specific profession.

The personal statement, professional experience and supporting references provide very important qualitative evidence regarding the applicant's potential for successful achievement in graduate studies. The academic record and high advanced-test scores do not in themselves, therefore, ensure admission. Occasionally, the Admissions Committee views other factors as important considerations; such as, professional achievements, recognized abilities or interests,

substantial public service, and the overcoming of personal, societal or educational obstacles.

Applicants may be admitted to the Graduate School in one of the following categories:

*Regular Admission.* Applicants are admitted under this category when they have satisfied the admissions criteria of both the Graduate School and the department or program in which they are to enroll for graduate studies.

*Provisional Admission.* Applicants are admitted to the Graduate School under this category when their credentials are either incomplete at the time of application or when there is evidence of a deficiency in their academic preparation for studies in their chosen graduate program. Incomplete credentials may result because the application was submitted prior to the conferring of the baccalaureate degree, essential undergraduate grades are not yet available, or advanced test scores have not yet been reported, et cetera. An academic deficiency in preparatory studies would be determined by the requirements of the separate department or program in which the applicant seeks admission.

*Special Admission.* Applicants who are admitted to the Graduate School under this category are nondegree students. They are admitted to pursue studies for certification, transfer of credit, self-improvement, master equivalency, or auditing. The continuance of graduate studies under this category is governed by the grade policy of the Graduate School. A qualified undergraduate student who has been admitted to an accelerated course of study that permits him or her to earn graduate credit is accepted into the Graduate School as a special student under this category. Acceptance as a degree student is contingent upon the reception of the baccalaureate degree in addition to the successful fulfillment of all other requirements for admission into the Graduate School.

Admission to the Graduate School, under any of the above categories, does not necessarily imply admission to candidacy for a graduate degree.

After admission to the Graduate School, each student's record is periodically evaluated to ensure adherence to the standards of both the Graduate School and the department or program in which the student is pursuing graduate study. The results of these evaluations determine the current status of the graduate student.

*Candidacy.* A student is not considered a candidate for a degree until he/she fulfills the following requirements:

1. completes with a QPI of at least 3.0 a minimum of nine semester hours of course credit at the University of Scranton;
2. completes a formal application for degree candidacy and files it with the Graduate Office.

After a student fulfills the two requirements and the appropriate department approves the application for degree candidacy, he/she will be raised to candidacy for the degree.

### **ENGLISH LANGUAGE REQUIREMENTS— INTERNATIONAL STUDENTS**

Applicants who are citizens of non-English speaking countries are required to obtain a score of at least 500 on the Test of English as a Foreign Language (TOEFL) as one criterion for admission to the Graduate School.

In some cases when an applicant's TOEFL score is under 500, but all other criteria for admission have been met, the applicant may be granted a conditional acceptance with the provision that he/she achieve a TOEFL score of at least 500 before beginning classes.

### **REGISTRATION FOR COURSES**

Registration for each semester will take place according to the schedules listed in the special bulletins which are issued prior to each semester. Mail registration is permitted after the initial acceptance and registration. Registration will be with the approval of a student's mentor or chairman of the department. *Students who wish to cancel their registration must give written notice to the Graduate School Office. Please see details under Dropping and Withdrawing from a Course.*

In order to facilitate registration for old and new students a period of pre-registration is held each semester. This will extend over a period of about 10 days and all graduate students taking courses during the current semester should register between the announced dates.

The University reserves the right to withdraw a course from its schedule in which less than ten students have been registered.

Undergraduate students may register for certain graduate courses. They must, however, have the approval of the appropriate department chair and the appropriate deans.

### **MENTORS**

From the inception of graduate study, students will be assigned a mentor to help them formulate a program of studies and supervise their work. It is suggested that students work closely with their mentors and that the courtesy of arranging appointments in advance with faculty members so designated be observed by all students.

## ACADEMIC STANDARDS

Achievement of graduate students is recorded as follows: A—excellent (4 quality points for each semester hour of credit); B+—superior (3.5 quality points for each semester hour of credit); B—good (3 quality points for each semester hour of credit); C—fair but passing (2 quality points for each semester hour of credit); F—failure (0 quality points for each semester hour of credit).

A student who is a candidate for a master's degree must have an average Quality Point Index (QPI) of at least 3.0 before the master's degree will be conferred on him/her. Any student who fails any two courses will be automatically dismissed and so notified by mail.

Other grade symbols used are:

S which indicates pass. Individual departments are authorized the use of S (pass) or U (fail) under certain circumstances. Students in the Departments of Chemistry, Education and Human Resources should consult their Department Chairman and/or mentor for details;

IP which indicates a student is registered for a thesis or an approved research project which has not been completed at the end of a given semester but for which satisfactory progress is being made. This grade is temporary and once the work has been completed it must be converted to one of the permanent grade symbols.

W indicates that a student has withdrawn from a course.

"I" indicates postponement of the completion of a course. It is given at the discretion of the instructor to a student who is doing satisfactory work but who has not completed all of the course requirements at the end of a given semester. Given such an extension, the student must complete all the required work, unless otherwise agreed, before the end of the next regular semester. Failure to complete the necessary work within the stipulated time results in automatic conversion of the "Incomplete" to the permanent grade of NC (never completed);

NC indicates that a student failed to complete the requirements of a course, in spite of an extension of time to do so.

"Audit" indicates that a student has taken a course for which permission has been granted without a grade being awarded. Students must secure such authorization prior to the start of a course.

The symbol "NG" is a temporary grade citation issued by the Dean on grade reports when a faculty member fails to meet the announced deadline for the submission of student final grade reports. Students who received such grade reports should direct any inquiries regarding same to the professor(s) involved. This procedure has been adopted in order to expedite the processing of aggregate final grade reports and student transcripts. Such temporary grade citations will



be changed, in due course, to permanent grade symbols when issued by the professor(s) charged with that responsibility.

Regular attendance at class is considered a requisite for successful completion of a course.

### **TIME LIMIT**

All graduate work for a degree, including the thesis, must be completed within six consecutive years. Time spent in the armed forces is not included in the six year period. Extension of this time restriction may be granted for valid reasons at the discretion of the Dean.

### **CONSORTIUM, INSTITUTES AND OFF-CAMPUS COURSES**

The Graduate School conducts or participates in institutes and special off-campus courses or programs. Persons enrolling in such offerings are reminded of Graduate School student application and admission policies as cited earlier in this catalog.

Attention is specifically called to the fact that enrollment in these situations does not imply that the student has been automatically accepted as a "Degree Student." The ordinary student admission classification under these circumstances is "Special Student—Professional Improvement Only."

Students are further reminded that if University graduate credits are offered and earned in these cases that they may or may not be used for fulfilling degree requirements. Acceptance of these credits for degree purposes depends upon the course subject matter for which they were granted and the compatibility of such matter with the student's prescribed degree program. The acceptability of credits so earned in these cases is determined by the student's mentor and/or the Director of the particular degree program. In any event, the maximum allowable credits to be so accepted cannot exceed twelve. The exception to this rule is any regularly scheduled University off-campus program that is designed to lead to a degree and in which a residency requirement has been established. In all cases students who contemplate utilizing such learning situations for degree purposes are advised to secure written approval for such usage from their mentor and/or the Director of the appropriate degree program before enrolling.

### **TRANSFER OF CREDITS**

After a student has acquired candidacy status he may request that approved graduate work previously completed at other institutions be accepted as partial fulfillment of graduate course requirements here. This will be granted only under the following conditions:

1. That such credits were acquired in residence at the other institution. Extension credits are, ordinarily, not acceptable.
2. That only six (6) credits maximum be transferred.
3. That courses to be transferred parallel courses here and mesh with the student's program at the University of Scranton.
4. That these credits were taken within six (6) years of the student's admission.
5. That a grade of B or better was acquired in these courses and that an official transcript is submitted for work at other institutions, including the course description of the credits in question.

Students matriculated at the University of Scranton may follow courses at other approved graduate schools, and transfer credits only with the previous permission of their mentor and the Dean of the Graduate School.

### **COMPREHENSIVE EXAMINATIONS**

Before a Master of Arts or Master of Science degree is awarded, the candidate must pass a comprehensive examination in his graduate course work. This examination may be either oral, written or both. Eligibility for admission to the examination is determined by the student's mentor with the approval of the Department Committee. This examination will be given only on the dates published in the graduate catalog. Application forms are obtainable at the Graduate School Office.

Several weeks before the examination date, the candidate should consult his mentor for a general explanation of the topics to be covered in the examination and file an application for the examination.

Candidates failing the comprehensive examination for the second time will not be considered for the advanced degree.

The results of the comprehensive examination will be forwarded to the candidate by mail.

### **THESIS**

Candidates for the Master of Arts degree in Biochemistry, Chemistry, Education, and Physics must present a thesis, completed under the active supervision of the candidate's mentor and approved by one additional reader. In case of doubt, a third reader may be required. In the preparation of the thesis, style regulations prescribed by the Graduate School will be observed. Two copies of the accepted thesis must be submitted to the Graduate School Office on or before the date indicated in the University calendar.

## **SUMMARY**

The following procedures are to be followed by students working for the advanced degree:

1) File an application for admission to graduate study, official transcripts of undergraduate preparation and of graduate credits taken elsewhere, and supporting recommendations.

2) Meet with their mentor to organize a program of studies in the major course concentration selected and confirm the program at each registration period.

3) Apply for candidacy for the degree by fulfilling requirements.

4) Complete core, specific major and elective courses.

5) Complete the required thesis or scholarly paper if applicable.

6) Successfully pass the required comprehensive examination.

7) Make formal application to the Graduate office for the degree.

## **ALUMNI MEMORIAL LIBRARY**

The library is located on the Scranton Estate. It contains approximately 200,000 bound volumes, with 1600 literary, scientific and professional periodicals currently received. Microfilm, microfiche, and microcard reading equipment is available, as well as inter-library loan.

The library is open daily during the fall and spring semesters from 8:30 a.m. to 11:30 p.m., Monday to Thursday; 8:30 a.m. to 10:00 p.m. on Friday; 10:00 a.m. to 6:00 p.m. on Saturday; and 12:00 noon to 11:30 p.m. on Sunday. During the summer semester, the hours are 8:30 a.m. to 10:00 p.m., Monday to Thursday; 8:30 a.m. to 8:00 p.m. on Friday; 10:00 a.m. to 6:00 p.m. on Saturday; and 12:00 noon to 8:00 p.m. on Sunday. The hours are subject to change.

## **COUNSELING AND PLACEMENT**

The University's counseling and placement services are available to graduate students. The Counseling Center is located in the Gallery, 3rd floor. All offices are open on weekdays from 8:30 a.m. to 4:30 p.m. and at other times only by appointment.

In addition, there is a Career Services Office to serve students anticipating further graduate work, and for assistance in securing employment placement. Usually, special hours are scheduled to accommodate Graduate School students. Kindly contact the Career Services Office for these special periods.

## **FINANCIAL AID**

Limited numbers of teaching fellowships, teaching assistantships, and research assistantships are available. The primary responsibility of teaching fellows is to teach courses or laboratories; the

primary responsibility of teaching assistants is to assist a professor in teaching courses and/or laboratories; and the primary responsibility of research assistants is to help a professor do research. For students in the rehabilitation counseling program, traineeships are also available. Information and application forms for the fellowships and assistantships may be obtained from the dean of the Graduate School. Information and application forms for the rehabilitation counseling traineeships are available from the chairman of the Department of Human Resources.

Resident assistantships are offered to single male and female graduate students, whereby room and board in the university's dormitories are provided. Applications may be obtained from the Student Personnel Office.

Finally, a limited number of campus jobs sponsored by the federally-funded work-study program are available. Inquiries regarding the work-study program should be directed to the Financial Aid Office.

### **CAMPUS HOUSING**

Limited housing is offered for single graduate students in the ten modern university dormitories and university owned off-campus residences. Please consult Student Personnel office for details.

### **PHYSICAL EDUCATION CENTER**

The use of the John J. Long Center is provided for graduate students at a cost of \$10.00 per semester. Facilities are provided in the physical education building, for all indoor sports such as basketball, handball, weight lifting. A physical therapy room and sauna bath are also housed in the structure.

### **COMPUTER CENTER**

The Digital Vax 11/780 System, located in the Computer Center, is available for use by graduate students conducting research and programming functions in this area.

### **HONOR SOCIETIES**

Chapter organizations of several national honor societies are maintained at the University of Scranton campus. Graduate students can be selected for membership in the following: Alpha Sigma Nu, international Jesuit honor society; Phi Delta Kappa, education; Phi Alpha Theta, national honor society in history; Delta Mu Delta, business administration honor society; Sigma Pi Sigma, physics honor society; Omicron Delta Epsilon, national honor society in economics and Phi Lambda Upsilon, honorary chemical society. Contact the chapter officers for further information regarding membership.



## EXPENSES

### GRADUATE SCHOOL

Tuition (per semester hour of credit) .....	\$150.00
MBA Tuition (per semester hour of credit) .....	\$155.00
<b>Fees—</b>	
Application Fee .....	15.00
Library Fee (per semester) .....	15.00
Parking Fee (per semester) .....	10.00
Science Lab Fee .....	55.00
Late Registration .....	20.00
Prerequisite Challenge Examination Fee (per credit) .....	15.00
Audio-Visual Aids Fee .....	20.00
Binding of Thesis .....	25.00
Graduation Fee .....	60.00

Unless explicitly stated otherwise, tuition and fees are for one semester and are payable at registration. Tuition charges are made for all credits awarded. The Graduation Fee is payable, whether or not a student attends commencement exercises.

Students will not be permitted to receive any degree, certificate, or transcript of record until their financial accounts with the University have been satisfactorily settled.

(Students who have received a master's degree from the University of Scranton may take courses *in the program in which they received the master's degree* on a space-available basis at one-half the normal tuition rate.)

### DROPPING AND WITHDRAWING FROM A COURSE

Students are alerted that they may drop a course during the time in which they are entitled to a refund of any amount. (See "Refund Schedule" below.) TO DROP A COURSE STUDENTS MUST COMPLETE A "SCHEDULE CHANGE" FORM, WHICH IS AVAILABLE IN THE GRADUATE OFFICE. THIS FORM MUST BE COMPLETED AND RETURNED TO THE GRADUATE OFFICE WITHIN THE TIME IN WHICH STUDENTS ARE ENTITLED TO A REFUND. The drop will be treated as if the student never registered for the course.

After the time in which a student is entitled to a refund has elapsed, students will be permitted to withdraw from a course.

TO WITHDRAW FROM A COURSE STUDENTS MUST COMPLETE A "SCHEDULE CHANGE" FORM AND RETURN IT TO THE GRADUATE OFFICE. The student's transcript will contain the course number and title, along with a "W" for "withdraw."

Students will not be permitted to withdraw from a course within

15 calendar days of the first day of final examinations.

The University will adhere rigidly to the following "Schedule of Refunds:"

#### SCHEDULE OF REFUNDS FALL/SPRING SEMESTERS

Before the first day of a class and up to and including	
9 calendar days after a class begins . . . . .	100%
To and including 16 calendar days after a class has begun . . . .	75%
To and including 23 calendar days after a class has begun . . . .	50%
To and including 31 calendar days after a class has begun . . . .	25%
Beyond 31 days after a class has begun . . . . .	No Refund

#### SUMMER AND INTERSESSION

End of First Week . . . . .	100%
End of Second Week . . . . .	25%
Beyond Second Week . . . . .	No Refund

FEES ARE NOT REFUNDABLE.

# **DEPARTMENT OF EDUCATION**

Dr. Raymond L. Kimble, Chair

## **GOALS OF THE DEPARTMENT OF EDUCATION**

Through its various programs, the Department of Education endeavors to contribute to the improvement of education by preparing informed, inquiring, and skilled professionals for positions in the educational community.

More specifically, the Department aims to provide persons with a breadth and depth of knowledge and understanding in their specialized areas of professional practice and to provide training to insure competence in the specific area of functioning. To this end, individual program competencies have been developed.

Additionally, the Department endeavors to offer opportunities for continued professional growth to practicing educators, to assist in the educational growth and development of the community served by the University, and to foster the advancement of knowledge through research in education.

## **DEPARTMENTAL REQUIREMENTS**

The applicant for admission must possess the baccalaureate degree from an accredited college or university and provide the Departmental Committee on Admissions with evidence of satisfactory undergraduate preparation to achieve graduate work of good quality. The Departmental Admissions Committee will consider each application toward this end.

The Admission Committee will also consider the academic and personal traits of each applicant in relation to his/her potential for satisfactory achievement in graduate study.

With the exception of counselor education majors, the applicant will have completed the ordinary state requirements for professional certification; of those seeking master degrees, a B average in undergraduate Education courses is expected. If undergraduate course preparation in Education or the general or liberal studies is deficient, as determined by the Admissions Committee, the student will correct the deficiency before he/she applies for candidacy for the advanced degree.

Specific requirements for entrance into certain major concentrations are in addition to the admissions requirements to graduate study in Education at the University. These are described in the sections on Course Concentrations.

## **CANDIDACY**

It is the responsibility of the student to fulfill all candidacy requirements. His/her acceptance as a graduate student in a given major requires that he/she fulfill the following requirements:

1. File a formal application for candidacy with the Dean of the Graduate School.
2. Pass all courses required for candidacy. (See requirements of each major.)
3. Be approved by the Department in the field of his/her major concentration according to Departmental norms.

## **THE MASTER OF ARTS DEGREE**

Thirty semester hours of credit are needed for the M.A. degree. Nine of these will be in Education 202, 205, 206 or 207. Of the remaining twenty-one, three credits are allowed for the successful completion of a thesis, a requirement of the Master of Arts degree.

At the time of candidacy for the degree, the candidate's mentor, in cooperation with the student, will plan a program of studies which, together with the thesis, will provide a sound treatment of some area of interest. As a result of intensive work in this area, his/her study should be marked by sound mastery and technical accuracy. The M.A. program may entail requirements prescribed by the mentor, including those essential courses consistent with sound scholarship. The mentor's judgment in this matter is final.

The thesis required for the M.A. degree may be a research paper of suitable dimensions, a critical report of certain procedures or sectors of knowledge, or a scholarly biographical work on the Master's level.

The student, with the permission of the mentor, will register for a seminar while working on his/her thesis.

## **THE MASTER OF SCIENCE DEGREE**

Thirty semester hours or more of course credit are required for the M.S. degree. For the M.S. there is no thesis requirement, but a professional contribution is required. Some programs may permit additional course credits in lieu of the professional contribution. The student may seek the Master of Science degree in any one of the concentrations indicated hereafter.

Before registration, the graduate student will meet with his/her advisor for the selection of a concentration of courses and the approval of his/her program of studies. About one half of the course requirements for the Secondary Education: Correlated program will be in a subject-matter field.

While the candidate's courses within a concentration should



possess flexibility, certain essential courses are required. The mentor may make substitutions in order to round out a sound program of courses.

### **THE COMPREHENSIVE EXAMINATION**

A comprehensive examination, as prescribed by the department, is required of all candidates for a degree in education. This examination may be written, oral, or both.

### **LEAST RESTRICTIVE ENVIRONMENT**

All certification candidates must exhibit pre-certification competency of PL 94-142 before being recommended for the certification they seek.

### **APPEAL PROCEDURE**

A student who is enrolled in any certification program at the University and is recommended to be dropped from the program or refused University endorsement for certification may appeal the decision. The appeal is made through the Chair of the Department to a Committee consisting of three persons: the Graduate Dean, the Department Chair and a person from the faculty selected by the Director of the Certification Program in which the student is enrolled.

### **SUBSTITUTION OF COURSES FOR CERTIFICATION**

Approval of the mentor and certifying officer must be received before a course may be substituted for any course required in the specified certification program. Courses to be transferred from another college for certification purposes must also receive approval of the mentor and certifying officer before the courses are accepted for program requirements.

# SECONDARY EDUCATION: CORRELATED PROGRAM

Dr. Matthew C. Farrell, Director

*Objective:* To prepare the secondary school teacher in-service for more effective instruction of students.

## *Core Courses: 9 credits* *Semester Hours*

Education 202	Educational Research and Literature .....	3
Education 205	Philosophical and Historical Bases of Education I .....	3
Education 206	Philosophical and Historical Bases of Education II .....	3
or		
Education 207	The Sociology of Education .....	3

## *Specialized Requirements: 9 credits*

Education 233	Curriculum Theory and Development .....	3
Education 234	Improvement of Instruction in the Secondary School .....	3
or		
Education 295	Reading in the Content Areas .....	3
or		
Education 290	Instructional Materials for the Teaching of Reading .....	3
Education 275	Psychology of Adjustment .....	3

## *Electives: 15 credits*

### Plan A.

Ordinarily 15 semester hours of study are required in one of the following subject areas. With approval of the mentor, however, an interdisciplinary program of studies may be pursued.

Business	General Science	Political Science
Chemistry	History	Physics
English	Mathematics	Social Studies

### Plan. B.

In consultation with his or her mentor, the graduate student may elect 15 semester hours of appropriate courses offered by the Department of Education.

*Requirements for Candidacy:*

Before applying for candidacy, the student will successfully complete four graduate courses with a QPI of at least 3.0. These four courses for candidacy will consist of two core courses and two courses from the subject matter area.

**DEGREE REQUIREMENTS**

*Master of Arts:* Thirty approved credits, comprehensive examination and a thesis.

*Master of Science:* Thirty-three approved credits, comprehensive examination and a scholarly paper or thirty-six approved credits and a comprehensive examination.

# COUNSELOR EDUCATION

Dr. James J. Cunningham, Director

- Objectives:*
- (1) The preparation of secondary school counselors.
  - (2) The preparation of professionals for helping roles in other settings.

*Certification as a School Counselor:*

Students who desire to apply for the Pennsylvania school counselor's certificate must follow the certificate sequence as approved by their advisors and receive the master's degree.

Only students of proven competency who have successfully completed the certificate sequence and degree requirements will be endorsed for certification by the University. Supervised counseling experience with secondary-school students is required for certification.

Students who are not interested in secondary school counseling may, if approved by their mentor, substitute certain other courses directed toward other objectives.

*Major Concentration Entrance Requirements:*

These requirements for entrance into the Counselor Education major are in addition to the entrance requirements of the Graduate School:

- (1) Recommendations of three persons capable of evaluating the candidate's personal qualities as well as academic potential.
- (2) A written self-estimate of the candidate's qualifications for the position of counselor.
- (3) A personal interview.
- (4) An undergraduate grade-point average of 2.5 or above.

*Psychological and Sociological*

*Foundations Sequence:*

	<i>Semester Hours</i>
Education 274	Developmental Psychology ..... 3
Education 275	Psychology of Adjustment ..... 3
Education 207	Sociology of Education ..... 3
Education 246	Vocational Development ..... 3

*Counseling Sequence:*

Education 240	Theories of Counseling ..... 3
Education 241	Group Dynamics ..... 3
Education 242	Counseling Interview Techniques ..... 3
Education 242.2 <sup>1</sup>	Family Counseling ..... 3
Education 242.3 <sup>1</sup>	Behavioral Counseling ..... 3

Education 254	Use of Tests in Counseling .....	3
Education 244.1	Supervised Counseling Experience I .....	3
Education 244.2	Supervised Counseling Experience II .....	3

<i>Consultation Sequence:</i>		<i>Semester Hours</i>
Education 242.1	Utilization of Community Resources .....	3
Education 243	Current Issues in Counseling and Guidance .....	3

<i>Research Sequence:</i>		
Education 202	Educational Research and Literature .....	3
Education 245 <sup>2</sup>	Research Seminar in Counseling .....	3

- <sup>1</sup>Education 242.2      May be substituted for Education 275 with  
or 242.3              mentor's permission.
- <sup>2</sup>Education 245        May be substituted for scholarly paper with  
                              mentor's permission.

#### *Master's Degree:*

Thirty-six semester hours of credit are required for the Master's degree. Mentors will advise students regarding appropriate course selections, based on assessment of student credentials and professional objectives.

A student must also satisfactorily complete the comprehensive examination and Scholarly Paper requirements.

#### *Supervisory Certification*

The University also offers an approved program for those students who desire to become certified as Guidance Supervisors or Guidance Directors in Pennsylvania. (Please consult details under Supervision section.)

# ELEMENTARY EDUCATION

Dr. Michael Marino, Director

*Objective:* To prepare the elementary school teacher in-service for more effective instruction of students, and to help him or her acquire the skills and values to become a self-renewing teacher.

<i>Phase I 6 credits</i>		<i>Semester Hours</i>
Education 202	Educational Research and Literature . . . . .	3
Education 205	Philosophical and Historical Bases of Education I . . . . .	3
or		
Education 206	Philosophical and Historical Bases of Education II . . . . .	3
 <i>Phase II 6 credits</i>		
Education 230	The Elementary School Curriculum . . . . .	3
Education 231	Improving Instruction in the Elementary School . . . . .	3
 <i>Phase III 18 credits (One course in reading is required.)</i>		
Education 230.1	Current Issues in Elementary Education . . . . .	3
Education 230.2	Personalizing Education . . . . .	3
Education 280	Open Education . . . . .	3
Education 280.1	Workshop in Open Education . . . . .	3
Education 281	Individualizing Instruction . . . . .	3
Education 282	Teaching the Gifted Child . . . . .	3
Education 283	Children's Literature in the Elementary School . . . . .	3
Education 284	Seminar in the Language Arts: Reading, Writing, Speaking, and Listening . . . . .	3
Education 285	The Analysis of Research Studies in Language Arts . . . . .	3
Education 286	Selected Problems in Elementary School Mathematics . . . . .	3
Education 286.1	Seminar in Elementary School Mathematics . . . . .	3
Education 287	Selected Problems in Elementary School Social Studies . . . . .	3
Education 287.1	Seminar in Elementary School Social Studies . . . . .	3

Education 288	Selected Problems in Elementary School Science . . . . .	3
Education 288.1	Seminar in Elementary School Science . . . . .	3
Education 289	Workshop in Elementary Education . . . . .	3
Education 289.1	Workshop in Teaching Values . . . . .	3
Education 289.2	Workshop in Parent Involvement . . . . .	3
Education 290	Instructional Materials for the Teaching of Reading . . . . .	3
Education 291	Foundations of Reading Instruction . . . . .	3
Education 292	Psycholinguistic Implications for the Teaching of Reading . . . . .	3
Education 293.3	Classroom Diagnosis of Reading Problems . . . . .	3

A student may select courses other than those listed in Phase III provided that they are part of an integrated program and the student has permission from his or her mentor.

#### *Requirements for Candidacy:*

The student must complete one course from Phase II and six other credits before applying for candidacy.

### DEGREE REQUIREMENTS

There are three alternative ways to earn a master's degree in elementary education.

#### *Master of Arts*

The student completes the thirty credits, passes the comprehensive examination and completes a thesis.

#### *Master of Science*

A. The student completes thirty credits, passes the comprehensive examination and completes a scholarly paper.

B. The student completes thirty-six credits, takes the comprehensive examination but is not required to do a scholarly paper.



# ADMINISTRATION

## (Elementary and Secondary)

Dr. Thomas W. Gerrity, Director

*Objectives:* The preparation of elementary and secondary school principals.

### *Major Concentration Entrance Requirements:*

These requirements for entrance into the Administrative major are in addition to the entrance requirements of the Graduate School:

- (1) Recommendations of three persons capable of evaluating the candidate's personal qualities as well as academic potential.
- (2) A written self-estimate of the candidate's qualifications for the position of principal.
- (3) A personal interview.

### *Candidacy Requirement:*

To be eligible for candidacy, the student must have completed four graduate courses with at least grades of B.

### *The Master's Degree:*

A student will be recommended for a Master of Science degree in School Administration after satisfactory completion of courses required in Phase I, Phase II, Phase III, a practicum, and three other courses in Phase IV as approved by the mentor, passed a Comprehensive Examination in School Administration, and filed an approved scholarly paper or a professional project sixty days before graduation. With the mentor's permission, the student may substitute a prescribed three-credit course for the scholarly paper or professional project.

## Secondary Administration

### *Phase I—Four Courses (For Degree or Certification)*

	<i>Semester Hours</i>
Ed. 202*	Educational Research and Literature . . . . . 3
Ed. 205*	Philosophical & Historical Foundations of Education I . . . . . 3
Ed. 206	Philosophical & Historical Foundations of Education II . . . . . 3
Ed. 207	The Sociology of Education . . . . . 3
Ed. 221*	Educational Administration . . . . . 3



*Phase II—Three Courses (For Degree or Certification)*

Ed. 225*	The Secondary School Principal as Administrator .....	3
Ed. 226	Administration and Organization of the Middle School .....	3
Ed. 233*	Curriculum Theory and Development .....	3
Ed. 234	Improvement of Instruction in the Secondary School .....	3
Ed. 235	The Secondary School Principal as Supervisor .....	3
Ed. 237	Principles and Practices of Supervision .....	3
(Other courses listed may be submitted with permission.)		

*Phase III—Elective: Two Courses for Degree, Three for Certification*

S.S. 400	Ethnic Experience .....	3
Ed. 241	Group Dynamics .....	3
(Other courses may be selected in consultation with the mentor.)		

*Phase IV—Three Courses for Degree, Six for Certification*

Ed. 222.1	Problems in School Administration and Supervision .....	3
Ed. 222.2	Public Relations for Educators .....	3
Ed. 222.3	Personnel Management for Educators .....	3
Ed. 222.4**	School Finance .....	3
Ed. 222.5	School Plant Management .....	3
Ed. 222.6	School & Community Relations .....	3
Ed. 222.7***	Practicum in School Administration .....	3-6
Ed. 222.8	School Law .....	3
Ed. 222.9	Seminar in Advanced School Law .....	3
Ed. 223	Educational Management .....	3

**Elementary Administration**

*Phase I—Four Courses (For Degree or Certification)*

Ed. 202*	Educational Research and Literature .....	3
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*\*Required for Degree and Certification*

*\*\*Required for Certification Only*

*\*\*\*One Semester of Ed. 222.7 Required for Degree; a Second Semester of Ed 222.7 Required for Certification*

NOTE: In certain circumstances Ed. 226 and Ed. 237 may be used in Phase IV; Ed. 222.9 may be substituted for Ed. 222.8.

Ed. 205*	Philosophical & Historical Foundations of Education I . . . . .	3
Ed. 206	Philosophical & Historical Foundations of Education II . . . . .	3
Ed. 207	The Sociology of Education . . . . .	3
Ed. 221*	Educational Administration . . . . .	3

*Phase II—Three Courses (For Degree or Certification)*

Ed. 224*	The Elementary School Principal as Administrator . . . . .	3
Ed. 226	Administration and Organization of the Middle School . . . . .	3
Ed. 232	The Elementary School Principal as Supervisor . . . . .	3
Ed. 233*	Curriculum Theory and Development . . . . .	3
Ed. 237	Principles and Practices of Supervision . . . . .	3

(Other courses listed may be submitted with permission.)

*Phase III—Elective: Two Courses for Degree, Three for Certification*

S.S. 400	Ethnic Experience . . . . .	3
Ed. 241	Group Dynamics . . . . .	3

(Other courses may be selected in consultation with the mentor.)

*Phase IV—Three Courses for Degree, Six for Certification*

Ed. 222.1	Problems in School Administration and Supervision . . . . .	3
Ed. 222.2	Public Relations for Educators . . . . .	3
Ed. 222.3	Personnel Management for Educators . . . . .	3
Ed. 222.4**	School Finance . . . . .	3
Ed. 222.5	School Plant Management . . . . .	3
Ed. 222.6	School & Community Relations . . . . .	3
Ed. 222.7***	Practicum in School Administration . . . . .	3-6
Ed. 222.8	School Law . . . . .	3
Ed. 222.9	Seminar in Advanced School Law . . . . .	3
Ed. 223	Educational Management . . . . .	3

*\*Required for Degree and Certification*

*\*\*Required for Certification Only*

*\*\*\*One Semester of Ed. 222.7 Required for Degree; a Second Semester of Ed 222.7 Required for Certification*

NOTE: In certain circumstances Ed. 226 and Ed. 237 may be used in Phase IV; Ed. 222.9 may be substituted for Ed. 222.8.

# SUPERVISION

## (Elementary and Secondary)

*Objectives:* The preparation of elementary and secondary school subject supervisors. The supervisory credential may be pursued in School Guidance Services, Foreign Languages, Reading, Mathematics, Biology, Chemistry, Physics, Social Studies, Science and Communication.

### *Major Concentration Entrance Requirements:*

The candidate must meet the following requirements prior to acceptance into the Supervisory program:

- (1) possess adequate competency in the subject to be supervised.  
The application will be screened by the program faculty in the area for which the supervisory certificate is to be awarded.
- (2) possess a valid teacher's certificate for the area of concentration.
- (3) complete an application for the graduate school.

### *Course Requirements:*

A student is required to complete a minimum of 24 credits in order to satisfy the competency requirements for supervisory certification. A suitable program, taken from the following courses and courses in the appropriate discipline, will be developed by the mentor in consultation with the student. A competency needs analysis will be made to assist in developing a program of studies.

<i>Courses</i>	<i>Semester Hours</i>
Ed. 202 Educational Research and Literature .....	3
Ed. 222.1 Problems in School Administration and Supervision.....	3
Ed. 231 Improving Instruction in the Elementary School .....	3
Ed. 233 Curriculum Theory and Development.....	3
Ed. 234 Improvement of Instruction in the Secondary School.....	3
Ed. 237 Principles and Practices of Supervision .....	3
Ed. 238 Practicum in Supervision .....	3
Ed. 241 Group Dynamics .....	3
Ed. 274 Developmental Psychology.....	3

Additional courses may be required to establish adequate competency in instruction and supervision and to establish adequate

knowledge of the subject in which the supervisory certificate is being sought.

Upon completion of the program and the satisfactory performance on the comprehensive examinations, the student will be recommended by the University to the State Department of Education for certification as a supervisor.

# READING

Dr. Raymond L. Kimble, Director

## MASTER'S DEGREE PROGRAM

Candidates for the Master of Science degree in Reading may select a professional contribution program or additional credits to fulfill the degree requirements.

### *Professional Contribution Program*

The student must complete successfully 30 credits, 18 of which are required. The student will be recommended for the Master of Science degree in Reading when he/she has successfully met the credit requirements as approved by the mentor, completed a research course, passed a written comprehensive examination, and filed an approved professional contribution. Certification as a Reading Specialist may be obtained prior to completing the degree. The student must have completed the Reading Sequence and passed the competency or comprehensive examination.

<i>Reading Sequence**</i>		<i>Semester Hours</i>
Education 291	Foundations of Reading . . . . .	3
Education 292	Psycholinguistic Implications for the Teaching of Reading . . . . .	3
Education 293.1	Diagnosis of Reading Disabilities . . . . .	3
Education 294	Practicum in Reading . . . . .	3
Education 296	Organization and Operation of Reading Programs . . . . .	3
Education 295	Reading in the Content Areas . . . . .	3
or		
Education 297	Reading in the Secondary School . . . . .	3

\*\*The candidate for the Reading Specialist certificate must exhibit the competency expected by virtue of completing the reading major sequence. Appropriate additions/deletions/substitutions may be made as determined by an evaluation of the student's credentials.

### *Support Areas*

<i>Reading (By Advisement)</i>		<i>Semester Hours</i>
Education 290	Instructional Materials for the Teaching of Reading . . . . .	3
Education 293.2	Learning Disabilities and the Reading Process . . . . .	3

### *General Education (By Advisement)*

Education 293.3	Classroom Diagnosis of Reading Problems .....	3
Education 299	Seminar in Reading Research .....	3
Education 202	Educational Research and Literature .....	3
Education 274	Developmental Psychology .....	3
Education 230	The Elementary School Curriculum .....	3
Education 231	Improving Instruction in the Elementary School .....	3
Education 284	Seminar in the Language Arts: Reading, Writing, Speaking and Listening .....	3

### *OTHER COURSES BY MENTOR'S APPROVAL*

#### *Credit Option:*

The Master of Science degree may also be obtained by successfully completing 36 credits. The courses contained in the Reading Sequence are required plus appropriate study as approved by the Mentor. A student will be recommended for the Master of Science degree in Reading when 36 approved credits have been successfully completed, including a course in research, and the comprehensive examination passed. Certification as a Reading Specialist may be obtained prior to completing the degree. The student must have completed the Reading Sequence and passed the competency or comprehensive examination.

#### *Certification Program in Reading*

Students desiring to meet the Reading Specialist certification requirements will be recommended, upon request, for the Pennsylvania Reading Specialist Certificate after successfully completing the Reading Sequence and pass the comprehensive examination.

<i>Reading Sequence**</i>		<i>Semester Hours</i>
Education 291	Foundations of Reading . . . . .	3
Education 292	Psycholinguistic Implications for the Teaching of Reading . . . . .	3
Education 293.1	Diagnosis of Reading Disabilities . . . . .	3
Education 294	Practicum in Reading . . . . .	3
Education 296	Organization and Operation of Reading Programs . . . . .	3
Education 295	Reading in the Content Areas . . . . .	3
	or	
Education 297	Reading in the Secondary School . . . . .	3

\*\*The candidate for the Reading Specialist certificate must exhibit the competency expected by virtue of completing the reading major sequence. Appropriate additions/deletions/substitutions may be made as determined by an evaluation of the student's credentials.

To be recommended for the Pennsylvania Reading Specialist Certificate, the students must be a certified teacher in Pennsylvania.

*Reading Supervisor:*

The University offers an approved program for those students desiring to become certified as a Reading Supervisor in Pennsylvania. (Please see description under Supervision section.)



# MATHEMATICS EDUCATION

Prof. Bernard J. Johns, Coordinator of Graduate Program

## *Objective:*

To prepare the secondary school teacher in-service for more effective instruction of students in mathematics.

## *Prerequisite:*

Satisfactory fulfillment of all admission criteria for studies in the Department of Education.

<i>Core—9 credits</i>	<i>Semester Hours</i>
Education 202	Educational Research and Literature . . . . . 3
Education 205	Philosophical and Historical Bases of Education I . . . . . 3
Education 206	Philosophical and Historical Bases of Education II . . . . . 3
	or
Education 207	The Sociology of Education . . . . . 3

## *Required—9 credits*

Education 233	Curriculum Theory and Development . . . . . 3
Education 234	Improvement of Instruction in the Secondary School . . . . . 3
Education 275	Psychology of Adjustment . . . . . 3
Education 290	Instructional Materials for the Teaching of Reading . . . . . 3
Education 295	Reading in the Content Areas . . . . . 3

## *Elective Courses:*

Math. 404	Modern Algebra for Teachers . . . . . 3
Math. 405	Linear Algebra and Theory of Equations . . . . . 3
Math. 406	Introductory Analysis . . . . . 3
Math. 407	Geometry . . . . . 3
Math. 408	Probability and Statistics . . . . . 3
Math. 409	Introduction to Computing . . . . . 3

Kindly refer to the criteria outlined by the Department of Education, Secondary Education: Correlated for application procedures and degree requirements.



# SOCIAL STUDIES

Dr. John L. Earl, III, Coordinator of Graduate Program

## *Objective:*

To prepare the secondary school teacher in-service for more effective instruction of students in social studies.

## *Prerequisite:*

Satisfactory fulfillment of all admission criteria for studies in the Department of Education.

<i>Core—9 credits</i>		<i>Semester Hours</i>
Education 202	Educational Research and Literature . . . . .	3
Education 205	Philosophical and Historical Bases of Education I . . . . .	3
Education 206	Philosophical and Historical Bases of Education II . . . . .	3
or		

Education 207	The Sociology of Education . . . . .	3
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## *Required—9 credits*

Education 233	Curriculum Theory and Development . . . . .	3
S.S. 237.1	Teaching of History and Social Science . . . . .	3
Education 275	Psychology of Adjustment . . . . .	3
Education 290	Instructional Materials for the Teaching of Reading . . . . .	3
Education 295	Reading in the Content Areas . . . . .	3

## *Elective Courses:*

S.S. 400	The Ethnic Experience . . . . .	3
S.S. 402	Contemporary World: An Age of Controversy . . . . .	3
S.S. 403	Today's "Isms": Fascism, Socialism, Communism, Democracy . . . . .	3
S.S. 405	World Politics: Peace, War and Diplomacy in Modern Age . . . . .	3
S.S. 406	The Third World: Asia, Africa, Latin America and Middle East . . . . .	3
S.S. 408	Cultural Geography . . . . .	3
S.S. 409	Comparative Religions . . . . .	3
S.S. 410	Social Setting of Economics . . . . .	3
S.S. 411	Comparative World Cultures . . . . .	3
S.S. 412	Contemporary American Problems . . . . .	3
S.S. 420	Military Power in the 20th Century . . . . .	3

Kindly refer to the criteria outlined by the Department of Education, Secondary Education: Correlated for application procedures and degree requirements.

# COURSE DESCRIPTIONS

## FOUNDATIONS OF EDUCATION

### Education 202. *Educational Research and Literature* 3 credits

This is a basic course concerned with the nature of research problems in education. It is intended to introduce students to the basic principles of research; the more frequently employed research methodologies; the conceptualization of research problems in education; the formulation of hypotheses; and the study of selected data-gathering instruments. A research project is required, wherein the students will gain a facility in the critical analyses of research material essential to their graduate studies.

### Education 205. *Philosophical and Historical Bases of Education I* 3 credits

This course considers in the tradition of philosophy the fundamental problems of the nature of man, the child, the parent, the school, and society. The aims of education in society and their consequences in rights and duties are the most salient problems.

### Education 206. *Philosophical and Historical Bases of Education II* 3 credits

The second course studies the history of education formally. After a brief overview of the classical, patristic, and medieval periods, major attention is given to education in the twentieth century, especially in the United States.

### Education 207. *The Sociology of Education* 3 credits

The sociology of education is oriented toward understanding the social influences on learning. The socialization of the child, social structure in American society, social mobility, the school as an agency of socialization, social problems especially germane to the school such as delinquency, population and racial integration, the social role of the teacher, the school and its sociological environment will be the areas of special concern.

## ADMINISTRATION

### Education 221. *Educational Administration* 3 credits

A foundations course in general school administration, involving philosophical bases, organization in a democratic society, administration of instruction and personnel. Required of all students beginning a major in educational administration and a prerequisite for other courses in educational administration.

### Education 222.1. *Problems in School Administration and Supervision* 3 credits

A seminar for the student seeking certification in elementary or secondary school administration or in supervision. Emphasis is upon in-depth examination of a selected problem or issue in administration or supervision. Admission with approval of the instructor. (Prerequisite: Education 221)

### Education 222.2. *Public Relations for Educators* 3 credits

An introduction to school public relations. Emphasis is focused upon establishing contact between schools and the general public through the use of mass media.

### Education 222.3. *Personnel Management for Educators* 3 credits

An overview of the establishment and performance of personnel policies as they

relate to recruitment, selection, orientation, deployment, promotion, evaluation, in-service development, morale, and dismissal. Admission with consent of instructor.

**Education 222.4. *School Finance* 3 credits**

An introduction to public school finance. Emphasis is focused upon the responsibilities in handling student funds, district budgeting and accounting, and modern planning-programming-budgetary systems. Admission with consent of instructor.

**Education 222.5. *School Plant Management* 3 credits**

A study of problems involved in the planning, operation, and maintenance of school plant facilities. Emphasis is upon efficient use of existing plant facilities and their possible adaptations to meet modern educational and community needs. Admission with consent of instructor.

**Education 222.6. *School and Community Relations* 3 credits**

A study of the relationship of the school to the community. Emphasis is focused upon the school-community concept, community analysis, community characteristics affecting quality education, and public participation in educational planning. Admission with consent of instructor.

**Education 222.7. *Practicum in School Administration* 3 credits**

The purpose of this course is to give the student practical experience in administrative work. A minimum of 90 clock hours in one semester must be spent on this work. Work is done under supervision in a local school system according to a definite schedule approved by the instructor and the administrator of the school system involved. Admission by special arrangement. (Normally offered Fall and Spring semesters only.) (Prerequisite: Ed. 224 or Ed. 225 as applicable.)

**Education 222.8. *School Law* 3 credits**

A study of common law legislative enactments and directives of the Department of Education as they pertain to school systems.

**Education 222.9. *Seminar in Advanced School Law* 3 credits**

A comprehensive study of legal issues related to the operation of the nation's schools. Special emphasis is placed on issues in school law that may affect the nation and substantially alter the course of education. Admission with approval of the instructor.

**Education 223. *Educational Management* 3 credits**

An overview of functions and problems in three major areas of responsibility: finance, law, and personnel.

**Education 224. *The Elementary School Principal as Administrator* 3 credits**

A technical course emphasizing the administrative duties and responsibilities of the elementary school principal. Attention is focused on types of organization, program, studies, pupil progress, teaching staff, plant and equipment, and community relationships. (Prerequisite: Ed. 221)

**Education 225. *The Secondary School Principal as Administrator* 3 credits**

A technical course emphasizing the administrative duties and responsibilities of the secondary school principal. Attention is focused on problems of organization,

program of studies, pupil personnel, teaching staff, plant and equipment, and community relationships. (Prerequisite: Ed. 221)

**Education 226. *Administration and Organization of the Middle School* 3 credits**

A technical course emphasizing the organizational and administrative duties and responsibilities of the middle school principal. Attention is focused on the problems of organization, program of studies, pupil personnel, teaching staff, plant and equipment, and community relationships. (Prerequisite, Ed. 221)

**CURRICULUM, INSTRUCTION & SUPERVISION**

**Education 230. *The Elementary School Curriculum* 3 credits**

An investigation of curriculum theory as applied to classroom practice. Students will have an opportunity for serious study of the basic considerations necessary in providing a meaningful teaching-learning environment for children in a changing world.

**Education 230.1. *Current Issues in Elementary Education* 3 credits**

Students in this course will have an opportunity to study and review the current research on pertinent issues in the education of children.

**Education 230.2. *Personalizing Education* 3 credits**

Students in this course will have an opportunity to study and utilize practical classroom approaches to personalize human relationships, instruction, curriculum, classroom organization and management.

**Education 231. *Improving Instructions in the Elementary School* 3 credits**

Students will study a wide spectrum of techniques and strategies to improve classroom instruction and enhance learning. Emphasis will be on practical classroom applications.

**Education 232. *The Elementary School Principal as Supervisor* 3 credits**

Methods and techniques in the supervision of the elementary school with the objective of improvement of teaching and learning in terms of modern objectives and methods.

**Education 233. *Curriculum Theory and Development* 3 credits**

Principles of curriculum construction which underlie the reorganization of the program of studies for elementary and secondary schools, sources of the curriculum, methods of organization, structure of knowledge, and curriculum planning and development.

**Education 233.1. *Seminar in Curriculum Issues* 3 credits**

An examination of the prevailing conceptual approaches to the study of curriculum. Issues for inquiry and research are identified. The student is required to conduct an independent project related to a particular curriculum issue. Admission with approval of the instructor.

**Education 234. *Improvement of Instruction in the Secondary School* 3 credits**

Secondary general methods with emphasis on current procedures, theories and



practice. Such topics as classroom atmosphere, teacher-pupil behavior patterns, teaching skills, pupil-teacher planning, inquiry, communication, logic in teaching and teaching the process of learning, including current research, classroom management, effective schools, and other concerns. Other topics will be introduced as interest of the group and time allows.

**Education 235. *The Secondary School Principal as Supervisor* 3 credits**

A technical course emphasizing the duties and responsibilities of the secondary school principal in the role of a supervisor of instruction. Attention is focused upon methods and techniques of supervision with the objective of improvement of teaching and learning in terms of modern objectives and methods.

**Education 237. *Principles & Practices of Supervision* 3 credits**

A description of a philosophy of supervision, principles of supervision, the role of the supervisor, planning a supervisory program, techniques of supervision, evaluation, coordinating the instructional program, and trends in supervision.

**Educ./S.S. 237.2. *Teaching of History and Social Studies* 3 credits**

A consideration of the objectives of social studies, organizing the subject matter, textual and non-textual materials, the social studies curriculum, outcomes and their evaluation.

**Educ./Eng. 237.2. *Teaching of English Literary Types in Secondary Schools* 3 credits**

Narrative and lyric poetry types, prose types, and drama. Techniques of methodology and organizational patterns are suggested. Listed under Education courses, this offering is taught by the Department of English.

**Education 238. *Practicum in Supervision* 3 credits**

The purpose of this course is to give the student practical experience in supervision. A minimum of 90 clock hours in one semester must be spent on this assignment. This is accomplished under the supervision of a certified supervisor, according to a definite schedule mutually approved by the instructor and cooperating supervisor. (Prerequisites: Ed. 234 and Ed. 237)

**Educ. 260. *Teaching Internship* (Variable credits 3-9)**

Involvement in actual teaching in a secondary school with appropriate supervision at both the secondary and University levels. Admission to the teaching internship is by permission of the Education Department chairperson. (Prerequisite: Ed. 103)

**E/CS 208. *Computer Literacy for Educators* 3 credits**

This course for educators is designed to meet the following goals: (1) knowledge of how computers operate; (2) develop ability to use the computer; (3) become aware of some of the applications of computers; (4) to understand the social implications of computers and computing; and (5) to understand the rudiments of the LOGO computing language, a language commonly available for microcomputers which promotes structured programming characterized by top-down design with stepwise refinement through modularization.

**E/CS 209. *Problem Solving with Pascal* 3 credits**

This course for educators is designed to meet the following goals: (1) to develop a



workable knowledge of PASCAL; (2) to develop problem solving abilities utilizing top-down design with stepwise refinement; (3) to understand algorithm implementation; (4) to understand the principles of operating system design and utilization; (5) data structures and analysis of algorithms; and (6) to understand the principles of compiler and interpreter design. Admission with approval of the instructor.

*E/CS 210. Data Structures Using Pascal* **3 credits**

This course is designed to give the teacher of computing the necessary background to teach the data structures component of the AP Computer Science course. Topics included will be stacks, queues, deques, linked lists, trees, sorting, searching, and implementations of these in Pascal. Prerequisite: E/CS 209.

*Education 280. Open Education* **3 credits**

An intensive study of what open education is all about. Emphasis will be on the British and American open classrooms compared to the classrooms of teachers in this area.

*Education 280.1. Workshop in Open Education* **3 credits**

This course affords students an opportunity to develop practical ways to apply open education concepts to their classroom situation.

*Education 281. Individualizing Instruction* **3 credits**

An analysis of theory and practice of individualizing instruction. Practical approaches will be emphasized.

*Education 282. Teaching the Gifted Child* **3 credits**

Teachers will have an opportunity to study the broad range of giftedness in children. Emphasis will be on how to foster the development of gifted youngsters in our schools. Programming for the gifted will be studied also.

*Education 283. Children's Literature in the  
Elementary School* **3 credits**

Literature for children from kindergarten through the elementary school years. Children's literary needs and interests will be emphasized.

*Education 284. Seminar in the Language Arts:  
Reading, Writing, Speaking and Listening* **3 credits**

Focus is on the place of the language arts in the total elementary school curriculum. Topics included are integration of reading, writing, speaking and listening; correlation of these four areas of the language arts with the content subjects; and a consideration of innovative spelling and handwriting programs.

*Education 285. The Analysis of Research Studies  
in Language Arts* **3 credits**

This course is concerned with a critical analysis of the research evidence in the language arts and an examination of the underlying theoretical issues. Representative experimental, correlational and clinical studies will be evaluated in terms of their design, statistical tests employed and the relationship between specific findings and general conclusions.

*Education 286. Selected Problems in Elementary  
School Mathematics* **3 credits**

Students will study selected topics, problems and recent developments relevant to the elementary mathematics curriculum and instruction.

**Education 286.1. *Seminar in Elementary School***

***Mathematics***

**3 credits**

The major emphasis of this seminar will be individual action research projects in elementary school mathematics to be carried out in the student's classroom. Also, several colloquia topics of general interest will be studied in depth.

**Education 287. *Selected Problems in Elementary***

***School Social Studies***

**3 credits**

Students will study selected topics, problems, and recent developments in the elementary science curriculum and instruction.

**Education 287.1. *Seminar in Elementary School***

***Social Studies***

**3 credits**

The major emphasis of this seminar will be individual action research projects in the social studies to be carried out in the student's classroom. Also, several colloquia topics of general interest will be studied in depth.

**Education 288. *Selected Problems in Elementary***

***School Science***

**3 credits**

Students will study selected topics, problems and recent developments in the elementary science curriculum and instruction.

**Education 288.1. *Seminar in Elementary School Science* 3 credits**

The major emphasis of this seminar will be individual action research projects in elementary science to be carried out in the student's classroom. Also, several colloquia topics of general interest will be studied in depth. (Prerequisites, Educ. 202, 231)

**Education 289. *Workshop in Elementary Education* 3 credits**

Students will have the opportunity to develop and test innovative curriculum materials and strategies with special emphasis on models for individualizing instruction.

**Education 289.1. *Workshop in Teaching Values* 3 credits**

A course designed for students to become acquainted with areas of value teaching. It includes theory and value strategies for the classroom.

**Education 289.2. *Workshop in Parent Involvement* 3 credits**

This course is designed to facilitate teacher-parent involvement in the total learning process of children. Emphasis will be placed upon parent-teacher-child communication, activities for parent participation, and school-home relationships.

**RESEARCH**

**Education 300. *Research Seminar***

**Variable to 3 credits**

Designed for students who are working on their M.A. thesis. Registration is only with permission of the student's advisor and the Departmental Chairman.

**Education 300.1. *Directed Study***

**Variable to 6 credits**

This course is designed for students working in independent study on special projects and workshops. Registration in this course requires permission of the student's mentor, and the Departmental Chairman.

**READING**

**Education 290. *Instructional Materials for the***

***Teaching of Reading***

**3 credits**

A comprehensive survey of materials, resources and devices used to teach reading in the elementary and secondary schools. Emphasis will be placed on traditional and current trend materials, laboratory kits, teacher made devices and instructional media.

**Education 291. *Foundations of Reading Instruction* 3 credits**

A basic course in the foundation of reading designed to provide an introduction to reading instruction and reading programs. A study of the reading skills, techniques and methods which are essential for effective reading will be examined.

**Education 292. *Psycholinguistic Implications  
the Teaching of Reading* 3 credits**

A course designed to acquaint students with theories of the reading process as they relate to children's language acquisition and learning to read. Consideration will be given to the linguistic aspects of teaching reading. (Prerequisite, Educ. 291 or consent of Instructor)

**Education 293.1. *Diagnosis of Reading Disabilities* 3 credits**

A laboratory course designed to assist the reading specialist in becoming proficient in diagnostic skills. Standardized tests and informal assessment instruments will be examined. The student will be required to prepare a Diagnostic Case Report on a student experiencing difficulty in reading. Selected assessment tools will be identified to recommend as appropriate for use by the classroom teacher. (Prerequisite, Education 292 or consent of Instructor)

**Education 293.2. *Learning Disabilities and the  
Reading Process* 3 credits**

A course designed to acquaint students with the effects learning disabilities have on the reading process. An evaluation of the resources utilized in identifying the disabled learner will be made. The techniques of correction associated with the treatment of the disabled learner will be examined.

**Education 293.3. *Classroom Diagnosis of  
Reading Problems* 3 credits**

The course Classroom Diagnosis of Reading Problems is designed to examine formal and informal techniques of diagnosis appropriate for use by the classroom teacher. Consideration will be given to identifying skill deficiencies exhibited by students experiencing reading problems. An examination of appropriate diagnostic techniques will be made. Interpretation of the assessment material will be made to determine their effectiveness for specific situations.

**Education 294. *Practicum in Reading* 3 credits**

An instructional internship for the reading specialist designed to provide a supervised instructional experience. The student is expected to assess, and initiate a reading program and report the results of the individualized instructional program. Appropriate materials, techniques and methods are examined and utilized during the internship. (Prerequisite, Education 293.1 or consent of Instructor)

**Education 295. *Reading in the Content Areas* 3 credits**

A course designed for acquainting students with procedures of teaching functional reading skills in the elementary and secondary schools. Emphasis will be placed on the specialized vocabularies, concepts and skills which are considered necessary for the comprehension of reading materials pertinent to content area subjects. Various resources and devices will be examined.

**Education 296. *Organization and Operation of  
Reading Programs* 3 credits**

A lecture-discussion course dealing with the responsibilities of the reading specialist

in setting up and directing a school reading program. Attention is given to types of programs and approaches to teaching reading in these different organizational patterns as well as incorporating procedures to support the regular classroom program. Admission with approval of Instructor.

**Education 297. *Reading in the Secondary Schools* 3 credits**

A course designed to apprise prospective reading specialists or classroom teachers of practices and techniques of teaching reading in the secondary schools. Consideration will be given to the problems of teaching reading to the secondary school student. (Prerequisite, Educ. 292 or consent of Instructor)

**Education 299. *Seminar in Reading Research* 3 credits**

A course in which reading studies will be investigated in depth. Critical evaluations of journal articles will be made. The pedagogy and psychology of reading will be examined. The course is designed for advanced graduate students in reading. Admission with approval of the Instructor.

**COUNSELOR EDUCATION**

**Educ. 240. *Theories of Counseling* 3 credits**

Various counseling theories will be studied. Emphasis will be upon evaluating the various theories and abstracting parts of these theories into a comprehensive overview of the counseling process. Required of all Counselor Education students.

**Educ. 241. *Group Dynamics* 3 credits**

A basic understanding of group dynamics and behavior is provided. Processes and patterns of interaction are analyzed primarily from the standpoint of their broad educational significance. The selection, evaluation and use of group counseling methods and materials are discussed. Methods of developing and organizing group programs are also presented. Students also participate in a group experience. Required of all Counselor Education students.

**Educ. 242. *Counseling Interview Techniques* 3 credits**

This course deals with the application of counseling theory to the practical interview situation. The counseling process and the core elements of a facilitative counseling relationship will be examined. Counselor candidates will begin to develop basic interviewing skills. Required of all Counselor Education students.

**Educ. 242.1. *Utilization of Community Resources* 3 credits**

This course examines in detail the role of the counselor in relation to various agencies in the community. Criteria for referral and the referral process are described in depth as are the various aspects of collaboration and cooperation between school and community. Existing community resources are examined and representatives of various agencies present information about their services. (Prerequisite, Permission of the Instructor)

**Educ. 242.2. *Family Counseling* 3 credits**

Family Counseling theory and techniques are presented with special emphasis upon how they might be utilized by secondary school counselors. Although several conceptual models will be explored, the primary focus will be upon a Structural approach to family counseling. (Prerequisites, Education 240, 241, 242 and permission of the Instructor)

**Educ. 242.3. *Behavioral Counseling* 3 credits**

Behavioral counseling theory and techniques are presented with special emphasis



upon how they might be utilized by secondary school counselors. Basic assumptions, data-recording methods, and ethical concerns are considered. Contingency contracting and self-control methods will be included. (Prerequisites, Education 240, 241, 242 and permission of the Instructor)

**Educ. 243. *Current Issues in Counseling and Guidance* 3 credits**

This is a professional seminar wherein emphasis is placed upon the development of a sensitivity to the educational, sociological and philosophical implications of the counselor's role. This course is designed to provide for a smooth transition to the role of school counselor. Included in the course is a consideration of current ethical, legal, and professional development issues. Required of all Counselor Education students.

**Educ. 244.1. *Supervised Counseling Experience I* 3 credits**

This course consists of the actual counseling of secondary school students under supervision. A variety of experiences are provided for individual counseling, usually on site. Required in the certificate program. Admission is only by consent of Instructor.

**Educ. 244.2. *Supervised Counseling Experience II* 3 credits**

Actual counseling of secondary school students under supervision occurs in this course. A variety of experiences are provided for individual counseling and other counselor-related activities, usually on site. Required in the certificate program. Admission is only by consent of the instructor and the satisfactory completion of Education 244.1.

**Educ. 245. *Research Seminar in Counseling* 3 credits**

This course is intended to help students develop and further refine those skills necessary for understanding and conducting research studies. In addition to various research methodologies, the use of resources, e.g. general reference works, computer center, etc. will be presented. The primary emphasis will be upon current research in counseling and related fields. Scholarly project requirements will be fulfilled in this course.

**Educ. 246. *Vocational Development* 3 credits**

Psychological and sociological aspects of vocational choice and vocational adjustment will be presented and major theories of vocational development will be reviewed. Emphasis will be placed upon methods and resources for facilitating career development throughout the lifespan. Career Education, computerized information systems, and decision-making methods will be considered along with innovative approaches for special needs populations. Required of all Counselor Education students. (Prerequisites, Education 240, 242 and 254)

**Educ. 254. *Use of Tests in Counseling* 3 credits**

Emphasis will be placed upon the development of competency in the evaluation, use, and interpretation of tests and inventories used in assessing abilities, achievement, interests and personality. The relationship of informal data to the analysis of individual behavior will be included. Selected instruments will be examined in terms of their design and appropriate utilization in the secondary school program.

**Educ. 274. *Developmental Psychology* 3 credits**

This is an intensive treatment of biological, psychological, and sociocultural aspects of human development with particular emphasis on implications for the education and counseling of children and youth. Ways of promoting better interrelationships among people of different races, sexes, religions, national origins and socioeconomic backgrounds will be examined.

**Educ. 275. *Psychology of Adjustment***

**3 credits**

This course provides an understanding of adjustive behavior, including the discrimination of normal from abnormal behavior and a thorough understanding of sources of stress and stress management. Attention is given to factors that influence behavior with special attention to adjustment problems of secondary school students. Recommended in the certificate program and must be preceded by Education 274 or the equivalent.

**MATHEMATICS**

**Math 404. *Modern Algebra for Teachers***

**3 credits**

A treatment of groups, rings, etc. culminating in the negative result, Abel's Theorem, that there can be no formula for solving polynomial equations of degree greater than four. Wherever possible, the material shall be related to the various subsets of the real number system covered in the secondary schools.

**Math 405. *Linear Algebra and Theory of Equations***

**3 credits**

A study of second, third and fourth degree equations and systems of equations. Along with the methods of solution, an attempt will be made to provide the teacher with a backlog of applications for each type in the form of word problems.

**Math 406. *Introductory Analysis***

**3 credits**

An indepth study of the concepts and principles of calculus that are generally encountered in a secondary school analysis course. Emphasis will be placed on the development of the concepts of limit, derivative and integral and the various techniques a teacher might utilize in presenting them to a secondary school class. The student need not presently possess facility with calculus as this will develop during the course.

**Math 407. *Geometry***

**3 credits**

A study of Euclidean geometry including a discussion of methods and materials that teachers may employ in order to generate interest and enhance presentations. Wherever possible, relevant practical applications will be provided. A discussion of certain transformations will also be included.

**Math 408. *Probability and Statistics***

**3 credits**

An axiomatic approach to probability covering the basic rules, independence and conditional probability, probability functions, normal curve and hypothesis testing.

**Math 409. *Introduction to Computing***

**3 credits**

A discussion of various secondary-school problem-solving techniques that involve the use of computers.

**SOCIAL STUDIES**

**S.S. 400. *The Ethnic Experience***

**3 credits**

Immigration to America, early ethnic groups in Northeastern Pennsylvania, coal mining in the anthracite belt.

**S.S. 402. *Contemporary World: An Age of Controversy***     **3 credits**

A detailed examination and analysis of the major problems which have continually confronted the world in modern times, such as the world environmental quality, violence and international terrorism, hunger and world inflation.



S.S. 403. *Today's "Isms": Fascism, Socialism, Communism, Democracy* 3 credits

A detailed examination, discussion and interpretation of the leading political and economic ideologies that have affected the world in modern times.

S.S. 405. *World Politics: Peace, War and Diplomacy in Modern Age* 3 credits

An analysis of contemporary world politics focusing on the political, diplomatic, economic and military aspects of international issues.

S.S. 406. *The Third World: Asia, Africa, Latin America and Middle East* 3 credits

A study of the major problems and rising aspirations of the so-called under-developed and developing nations in the world today.

S.S. 408. *Cultural Geography* 3 credits

A consideration of the influence of geography on the origins, structure and spread of developing cultures.

S.S. 409. *Comparative Religions* 3 credits

A detailed examination of the major religious movements including Buddhism, Christianity, Hinduism, Judaism, Moslemism.

S.S. 410. *Social Settings of Economics* 3 credits

A study of the economic philosophies, industrial organization and economic power of modern time.

S.S. 411. *Comparative World Cultures* 3 credits

A comparative study of Western and non-Western cultures, including a survey of representative ethnographies of both traditional and contemporary societies.

S.S. 412. *Contemporary American Problems* 3 credits

An examination of topical issues in American society, organized to stress those values which are the antithesis of the major problems bringing stress, conflict and suffering to American society today.

S.S. 420. *Military Power in the 20th Century* 3 credits

A study of the role of military force in international relations and the impact of the military and war upon domestic society in modern times.

### **GRADUATE-UNDERGRADUATE COURSES**

Political Science 407. *Public Administration* 3 credits

Nature of public administration; structures and statutory limitations; staff organization and flow of command; employment policies, personnel training and management; employee organization; public relations.

Sociology 404. *Cultural Anthropology* 3 credits

Study and comparison of the learned, shared and transmitted behavior patterns and ideals by which man has worked out his social relations, dealt with his environment and defined his place in the world.

**Sociology 406. *Community Organization***

**3 credits**

A general introduction to the field and process of community organization, both as a field of social work, and as a field of human endeavor. The coordination and financing of welfare activities, methods of appraising community needs and resources, planning and the initiation of welfare services. Services of a voluntary and governmental nature.

**Sociology 411. *Urban Sociology***

**3 credits**

A sociological analysis of the development and effects of modern organization on human institutions, population trends and social relationships. The interrelationships, form, structure and organized life in cities, patterns of urban structure and cities of the future. The role of politics, social agencies and elements making for organization and disorganization. Urban planning and redevelopment.

**Sociology 413. *Juvenile Delinquency***

**3 credits**

Juvenile delinquency as a social problem. Methods of treatment and prevention, including juvenile courts, clinics, probation, parole, correctional institutions, child placement and recreational programs.

**Sociology 414. *American Minority Groups***

**3 credits**

A study of the cultural background, distribution, assimilation and other adjustments of minority groups; problems arising from the contacts of these people who differ as to race and culture. Prejudice and discrimination as opposed to the democratic ideology will be considered.

# DEPARTMENT OF HUMAN RESOURCES

Dr. Joseph A. Szuhay, CRC, Chair

## GENERAL INFORMATION

The Department offers coursework leading to Master of Science degrees in Rehabilitation Counseling and in Human Resources Administration, as well as a 12-credit Certificate of Achievement Program in Human Resources Administration, and a special 66-credit program leading to concurrent M.S. degrees in both Rehabilitation Counseling and in Human Resources Administration.

The applicant for admission to all Departmental programs must possess the baccalaureate degree from an accredited college or university and provide the Departmental Admissions Committee evidence of satisfactory undergraduate preparation. A minimum undergraduate quality point average of 2.6 on a four-point scale is necessary for admission. A personal interview with the Director of the Graduate Program is required of all applicants.

After admission to a departmental program and successfully completing the necessary courses for candidacy for degree in the respective program, the student must file an application for candidacy for degree. A comprehensive examination is required of all degree candidates with the student being responsible for submitting the application for comprehensive examination at the appropriate time.

Finally, the student must file an application for degree during the semester in which he/she intends to graduate. Filing of all necessary application forms at the appropriate times to the Director of the Graduate Program in which he/she is enrolled is the responsibility of the student.

# REHABILITATION COUNSELING

Dr. John M. Williams, CRC, Director

## *Objective:*

To prepare rehabilitation counselors and related professional personnel.

## PROFESSION

The rehabilitation counselor is an intervention specialist who either delivers or arranges to deliver therapeutic services to a variety of handicapped persons to assist the individual reach mutually agreed upon goals. The specific roles and functions of the rehabilitation counselor, the services provided, and the goals established will vary depending on the agency or organization in which the counselor is employed. In the typical state-federal vocational rehabilitation agency, medically, mentally, emotionally, or socially handicapped individuals are provided a variety of psychological, medical, social and vocational services to assist the person achieve independence in living and in becoming competitively employed. In a mental health or mental retardation agency or facility, the counselor may provide personal, social, or vocational adjustment services to assist the individual achieve the maximum health, well-being, and independence possible.

## EMPLOYMENT OPPORTUNITIES

The *Occupational Outlook Handbook*, a publication of the U.S. Department of Labor projects the employment opportunities in rehabilitation counseling to be good throughout the country through the mid-1980's. Follow-up data from over 500 graduates of the Program indicate that approximately fifteen percent received doctorates or are presently working on doctorates in rehabilitation or some related counseling profession. The overwhelming majority of the other graduates are employed in over thirty states throughout the country in a variety of public and private community agencies and organizations dealing with addictive problems; correctional rehabilitation; physically, auditorially, or visually handicapped; the mentally retarded or emotionally disturbed, the learning disabled; the socially-culturally disadvantaged; and geriatric clients.

## PROGRAM PHILOSOPHY

The effective helper in rehabilitation counseling is a person who

has acquired the basic attitudes, knowledge and skills of the profession through academic training; who combine these with personal and emotional characteristics of interpersonal awareness and sensitivity, emotional maturity, and personal effectiveness; and who has demonstrated basic competencies in the helping process.

The goal of the Program is to create a learning environment whereby the student can acquire the academic competencies of the profession and refine them through practical experience as well as to provide a facilitative process through which the student can increase self understanding, self confidence, and personal effectiveness.

### **DEPARTMENTAL REQUIREMENTS**

The applicant for admission must possess the baccalaureate degree from an accredited college or university and provide the Department Admissions Committee evidence of satisfactory undergraduate preparation. A minimum undergraduate quality point average of 2.6 on the four-point scale is necessary for admission, as is a personal interview.

### **REHABILITATION COUNSELING PROGRAM**

The Rehabilitation Counseling Program is a two year, four semester, 48-credit curriculum. It is conceptualized as five curricular modules; professional foundations; medically-related disability groups; vocational issues; counseling systems; and practical experience.

A minimum number of credits are specified in each module and totals 36 credits for the entire Program; however, only 33 credits involve specified required courses. There are 15 elective credits in the Program.

The Program ordinarily is 48 credits in length; however, students may select one or more of the following options to fulfill degree requirements.

Option (1): Graduates of the University of Scranton in the Health and Human Services or Human Services curriculum may petition for a waiver of RC-302-Case Management. A grade of B or better in the undergraduate equivalent course is required. With this option, 45 credits are required for degree.

Option (2): Students with a minimum of two years relevant professional work experience and who demonstrate competence in counseling skills in RC-341-Practicum, may petition for waiver of RC-343-Internship. Students considering this option should consult with the Program Director since internship waiver has implications for eligibility to sit for the national examination for Certified Rehabilitation Counselor. With this option, 45 credits are required for degree.



Option (3): Students who possess the necessary personal and academic attributes may elect to complete a Scholarly Paper that may involve quantitative research or theoretical exposition. Approval by the Program Director and Paper advisor is required. With this option, 45 credits are required for degree.

It should be emphasized that, regardless of the option(s) selected, the minimum number of credits required for degree is 42.

Students may enroll for RC-300-Directed Study for 3 credits. This allows the student to pursue an area of interest under the guidance of a faculty person. A fee, in addition to tuition charges, may be charged for both directed study and reader courses. Approval by the faculty person supervising the course and Program Director is required.

Ordinarily, a maximum of 6 credits from another college or university will be accepted for transfer into the Program if course relevance can be established and if in accordance with Graduate School policies.

Students in the Rehabilitation Counseling Program may take a maximum of 6 elective credits in the Human Resources Administration Program. Election of more than 6 requires the approval of the Program Director of both curricula.

### **FINANCIAL AID**

Limited financial aid has been available in the form of traineeships from the Rehabilitation Services Administration. The full-time student traineeship may pay the student's tuition, fees, and provide a monthly stipend.

### **PROCESS**

Acceptance to the Program does not insure graduation from it. In addition to the continuous evaluation of the student focusing on academic competence, commitment to the Program and the profession, and the personal and emotional characteristics and qualities related to successful performance in a helping profession, the student is not a candidate for degree until certain requirements are met. The student typically files an application for candidacy for degree after successfully completing any nine credits of required coursework and is granted candidacy status following approval by the Dean of the Graduate School. Before the degree is conferred, all students must pass a comprehensive examination which may be written, oral, experiential, or a combination of these. Application for the comprehensive examination is made during the semester the student enrolls for the counseling practicum. Students completing the Scholarly Paper option must submit a final, approved paper at least 60 days prior to the scheduled graduation date. Only the Master of Science degree is offered.



## CURRICULUM

### *Candidacy requirements:*

Before applying for candidacy for degree, the student must successfully complete three required courses.

MODULE 1: PROFESSIONAL FOUNDATIONS		Credits
<i>(12 credits required; 12 credits specified)</i>		
*RC 301	Rehabilitation Services and Issues**	3
*RC 302	Case Management	3
*RC 303	Human Assessment	3
*RC 304	Program Planning and Evaluation	<u>3</u>
		12
MODULE 2: MEDICALLY RELATED DISABILITY GROUPS		
<i>(3 credits required; 0 credits specified)</i>		
RC 311	Addictive Behaviors	
RC 312	Physical Disabilities	
RC 313	Psychiatric Disorders	
RC 314	Developmental Disabilities	
RC 315	Geriatrics	<u>3</u>
		3
MODULE 3: VOCATIONAL ISSUES		
<i>(3 credits required; 3 credits specified)</i>		
*RC 322	Vocational Development, Counseling, Evaluation, Job Development, and Placement	<u>3</u>
		3
MODULE 4: COUNSELING SYSTEMS		
<i>(6 credits required; 6 credits specified)</i>		
*RC 331	Cognitive Counseling Systems	3
*RC 332	Behavioral Counseling Systems	3
RC 333	Group Dynamics	
RC 334	Family Counseling	
RC 335	Stress Management	<u>6</u>
		6
MODULE 5: PRACTICAL EXPERIENCE		
<i>(12 credits required; 12 credits specified)</i>		
*RC 341	Practicum in Rehabilitation Counseling	3
RC 342	Practicum in Group Dynamics	
*RC 343	Internship in Rehabilitation Counseling	<u>9</u>
		12

\*\*A special materials fee at \$25.00 is charged to RC 301.

\*\*\*An insurance fee of \$12.50 is charged for RC 343.

## DIRECTED STUDY

*(0 credits required)*

RC 300 Directed Study

RC 399 Special Topics

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0

TOTAL CREDITS FOR DEGREE

48

Total Specified Credits

33

Total Elective Credits

15

THE REHABILITATION COUNSELING PROGRAM IS  
ACCREDITED BY THE COUNCIL ON  
REHABILITATION EDUCATION (CORE).

## **CERTIFICATION MAINTENANCE**

Rehabilitation Counseling courses are approved by the Commission on Rehabilitation Counselor Certification (CRCC) toward certification as well as for certification maintenance credits.

## **MASTER'S DEGREES IN BOTH REHABILITATION COUNSELING AND IN HUMAN RESOURCES ADMINISTRATION**

Selected students may combine coursework in both Rehabilitation Counseling and in Human Resources Administration Programs toward a M.S. degree in each major with the prescribed 66-credit academic program. Interested students should consult with the Directors of the Program to develop this individualized program.

# HUMAN RESOURCES ADMINISTRATION

Dr. John K. Stout, CRC, Director

## *Objective:*

To prepare supervisory, administrative, and management personnel for public and private health and human services agencies, organizations, and systems.

## **PROFESSION**

Supervisory and administrative personnel work through and with people using the processes of planning, organizing, leading, and controlling the efforts of individuals and committing the use of organizational resources in order to achieve stated organizational goals. While all administrative personnel use the above-mentioned processes and need a variety of human, conceptual, and technical skills, the specific roles and functions of the manager will vary according to the person's level in the administrative hierarchy as well as with respect to the type, size, nature, and complexity of the organization or system in which they are employed. In general, however, all administrative personnel practice the "art of getting things done through people."

## **PROGRAM PHILOSOPHY**

The goal of the Program is to create a learning environment whereby the student can acquire academic competencies to aspire for administrative positions in health and human services organizations and systems and/or to enhance the functioning of those students already employed as administrative personnel without previous academic training in the attitudes, knowledge, and skills of human resources administration. With the wide variety of clinical backgrounds, work experiences, and organizations represented in the student population, the classroom atmosphere provides a rich and dynamic learning environment. Ordinarily, the Program accepts only those applicants who have either an advanced direct service degree or professional experience in the health or human services field.

## **DEPARTMENTAL REQUIREMENTS**

The applicant for admission must possess the baccalaureate degree from an accredited college or university and provide the Graduate School Admissions Committee with evidence of satisfactory undergraduate preparation. A minimum undergraduate quality point average of 2.6 on the four-point scale is necessary for admission, as is a personal interview.

Students not already professionally employed may be required to take HRA 399, Special Topics: Internship. Selected students may enroll for two degrees: a master's degree in Rehabilitation Counseling and a master's degree in Human Resources Administration involving a total of 66 graduate credits.

## **PROGRAM**

The Human Resources Administration Program is a 36 credit curriculum. It is conceptualized as three curricular modules: administrative foundations; interpersonal processes; and, special applications. The curriculum contains coursework that is generic to most organizations and systems in the non-profit and for-profit sectors but also allows interested students to develop a limited specialization in the health care field.

The program is ordinarily 36 credits in length; however, students may select either of the following options to fulfill the credit requirements.

Option (1): The student may complete 12 courses, or 36 credits, of academic coursework.

Option (2): The student who possesses the necessary personal and academic attributes may elect to complete a Scholarly Paper that may involve quantitative research or theoretical exposition. Approval by the Program Director and Paper Advisor is required. With this option, 33 credits are required for degree.

Ordinarily, a maximum of six (6) credits from another college or university may be accepted for transfer into the Program if course relevance can be established and if in accordance with Graduate School policies. If the student already possesses a master's degree, nine (9) credits may be transferred under the same conditions.

Students not wishing to pursue a master's degree may be accepted as a non-matriculating special student. The applicant and the Program Director shall develop a 12-credit individualized academic program, at the conclusion of which the student shall receive a Certificate of Achievement. Certificate students are exempt from the comprehensive examination requirement and cannot select the Scholarly Paper option and transfer credits will not count as part of the required 12 credits.

Selected students may enroll for HRA 300-Directed Study for three credits. This allows the student to pursue an area of interest, not covered in regular coursework, under the guidance of a faculty person. A fee, in addition to tuition charges, may be assessed for the directed study course. Approval by the faculty person supervising the course and Program Director are required.

Students in the Human Resources Administration Program must

have 30 HRA credits for degree; six credits of electives may be taken in the Rehabilitation Counseling Program with the approval of the Program Director.

## PROCESS

Acceptance to the Program does not insure graduation from it. In addition to continuous academic evaluation, students are not candidates for degree until they successfully complete nine credits and file an application for candidacy status. In addition, the student must successfully pass a comprehensive examination which may be written, oral, or both. Application for the comprehensive examination is made during the semester the student enrolls for HRA 375. Application for degree is made at the beginning of the semester the student expects to graduate. Students completing the Scholarly Paper option must submit a final, approved paper at least 60 days prior to the scheduled graduation date. Only the Master of Science degree is awarded.

## CURRICULUM

### *Candidacy Requirements:*

Before applying for candidacy for degree, the student must successfully complete three departmental courses with a 3.0 quality-point index.

### *Courses:*

MODULE 1: ADMINISTRATIVE FOUNDATIONS	Credits
<i>(15 credits required; 15 credits specified)</i>	
HRA 371 Organization and Administration	3
HRA 372 Financial Administration	3
HRA 373 Managerial Leadership	3
HRA 374 Program Planning and Evaluation	3
HRA 375 Administrative Issues	3
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### MODULE 2: INTERPERSONAL PROCESSES

*(6 credits required; 0 credits specified)*

HRA 381 Individual Behavior in Organizations
HRA 382 Group Behavior in Organizations
HRA 383 Group Dynamics
HRA 384 Personnel Administration
HRA 385 Labor Relations

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### MODULE 3: SPECIAL APPLICATIONS

*(0 credits required; 0 credits specified)*

- HRA 391 Computer Technology
- HRA 392 Marketing Health and Human Services
- HRA 395 Health Services and Systems
- HRA 396 Legal Aspects of Health Care
- HRA 397 Health and Hospital Administration

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### DIRECTED STUDY

*(0 credits required; 0 credits specified)*

- HRA 300 Directed Study
- HRA 399 Special Topics

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### TOTAL CREDITS FOR DEGREE

36

Total required and specified credits

15

Total elective credits:

21

\*A special materials fee of \$25.00 is charged for HRA 373.



# Course Descriptions

## REHABILITATION COUNSELING

### RC 301. *Rehabilitation Services & Issues* 3 credits

Identification of the principles underlying rehabilitation, including history, philosophy, structure, and legislation. Study of the rehabilitation process from referral through follow-along activities. Concepts regarding legal issues, professional ethics, consumer advocacy, personal philosophy, community organization and the team concept are presented through a combination of guest lecturers and field trips.

### RC 302. *Case Management* 3 credits

The role of the rehabilitation counselor as a case manager or coordinator of services is examined. A case study approach is utilized.

### RC 303. *Human Assessment* 3 credits

Focuses on the statistical and research basis of psychological testing. Psychological tests are conceptualized and the student gains familiarity with the clinical use of these tests in rehabilitation counseling.

### RC 304. *Program Planning and Evaluation* 3 credits

Program evaluation models, strategies, and processes in human services organizations are discussed.

### RC 311. *Addictive Behaviors* 3 credits

The problems of drug and alcohol dependency are examined. Treatment approaches and facilities are illustrated and discussed.

### RC 312. *Physical Disabilities* 3 credits

Unique problems of various disability groups encountered by the counselor. Psychodynamic principles underlying personal adjustment to disability with emphasis on client needs, conflicts, and adjustment mechanisms. Environmental adjustment problems in relation to the nuclear family and community. A combination of guest lecturers and field trips will be utilized.

### RC 313. *Psychiatric Disorders* 3 credits

An examination of the problems of and associated with mental and emotional disturbances. Emphasis is placed on contemporary modalities of treatment as they relate to community Mental Health programs. Critical issues revolving around mental health including the dynamics behind these issues will be discussed.

### RC 314. *Developmental Disabilities* 3 credits

The problems of and associated with the developmentally disabled are examined with special emphasis being given to the learning disabled and mentally retarded. Approaches for assessment, management, and rehabilitation are discussed.

### RC 315. *Geriatrics* 3 credits

The purpose of this course is to present a broad overview of the major concepts and issues relevant to gerontology. The course will begin with a historical perspective of the field and branch into the psychological, sociological and biological aspects of aging.

**RC 321. *Vocational Development, Counseling, Evaluation, Job Development & Placement* 3 credits**

Theories and models of vocational choice, career development, vocational counseling, and selected vocational assessment measures are presented. An in-depth study of placement and rehabilitation problems and issues dealt with by the counselor in placing individuals with disabilities is included. Job analysis, industrial visits as well as a 1-day placement workshop are required.

**RC 331. *Cognitive Counseling Systems* 3 credits**

Selected cognitive theories and techniques of counseling are discussed and examined through a combination of lecture, discussion, and role playing activities. Application to different types of rehabilitation clients is discussed. (Prerequisite, RC 302)

**RC 332. *Behavioral Counseling Systems* 3 credits**

The literature on behavior modification and therapy is examined with particular emphasis on the application in rehabilitation facilities such as sheltered workshops, halfway houses, correctional facilities, and mental institutions. (Prerequisite, RC 302)

**RC 333. *Group Dynamics* 3 credits**

Selected theories, techniques, and research in group counseling, and dynamics are discussed with particular emphasis on application in rehabilitation treatment and supervision.

**RC 334. *Family Therapy* 3 credits**

The systems and communication theories of family therapy will be presented with specific attention to the structural and strategic family therapy approaches. A variety of family therapy techniques and stages will be learned through the use of role play and videotaping. The utilization of family therapy with rehabilitation clients will be discussed.

**RC 335. *Stress Management* 3 credits**

Focuses on stress, the nonspecific response of the body to any demand, which affects thoughts, emotions, and the body. Stress-induced diseases of adaptation (the psychosomatic warning signs such as hypertension, gastrointestinal disorders, and nervous disturbances) along with the stress-related thought disorders and emotional disturbances are examined.

**RC 341. *Practicum in Rehabilitation Counseling* 3 credits**

Focuses on necessary and desirable counseling skills, development of counseling relationships, and case conceptualization. Practical application of counseling theories and techniques, psychological testing, and vocational development theory is emphasized. (Prerequisites, 301, 302, 303, 304, 331, 332)

**RC 342. *Practicum in Group Counseling* 3 credits**

Focuses on necessary and desirable group counseling skills, the development of group environments and the use of group techniques for generating individual change. An advanced personal group experience under direction of the faculty is an ongoing part of this practicum. Students will be admitted to this practicum only by consent of faculty practicum supervisor. (Prerequisite, RC 333)

**RC 343. *Internship in Rehabilitation Counseling* 9 credits**

Full time placement in a community rehabilitation agency, facility, or institution

involving 600 clock hours of supervised experience. These assignments may include work in a district office of the Pennsylvania Bureau of Vocational Rehabilitation, or an agency offering services for a specific handicapped group (blind, retarded, emotionally disturbed, learning disabled, orthopedically disabled, etcetera), or in a sheltered workshop, center, hospital or other public or private agency where the student is a member of the rehabilitation team.

**RC 300. *Directed Study***

***3 credits***

Allows the student to pursue an area of interest under the guidance of a faculty member. A fee, in addition to tuition charges, may be charged. Approval of the faculty member and Program Director is required.

**RC 399. *Special Topics***

***3 credits***

Selected topics of current interest in the field of Rehabilitation are offered on a variable schedule.

# Course Descriptions

## HUMAN RESOURCES ADMINISTRATION

### **HRA 371. *Organization and Administration* 3 credits**

The planning, organizing, directing, and controlling functions of administration in health and human services organizations. Differences between for-profit and public and private not-for-profit organizations.

### **HRA 372. *Financial Administration* 3 credits**

Functions of finance including accounting conventions, capital budgeting and financing, revenue and expense budgets, cash flow and cash management in health and human services organizations.

### **HRA 373. *Managerial Leadership* 3 credits**

The interaction of the manager/supervisor, the organization, and the employee with emphasis on managerial/supervisory roles, motivational approaches and systems, leadership behaviors and styles, and their relationship to productivity and job satisfaction.

### **HRA 374. *Program Planning and Evaluation* 3 credits**

The functions of needs assessment, program planning, grantsmanship and program evaluation models, strategies and processes.

### **HRA 375. *Administrative Issues* 3 credits**

A case study and role playing seminar in issues and problems in supervision and administration in health and human services organizations. (Prerequisite, students must be a candidate for degree)

### **HRA 381. *Individual Behavior in Organizations* 3 credits**

The behavior of the individual is explored with emphasis on interviewing, communications, employee evaluation, goal setting, and counseling. Personality, counseling, and management theory is integrated into workable supervisory models and strategies.

### **HRA 382. *Group Behavior in Organizations* 3 credits**

An understanding of group behavior and dynamics with emphasis on group membership and leadership, team development, communications, organizational development, decision-making, and conflict resolution.

### **HRA 383. *Group Dynamics* 3 credits**

An experiential approach to group dynamics including the theories, techniques, and research in understanding of group behavior, working in and with groups, and group leadership.

### **HRA 384. *Personnel Administration* 3 credits**

The personnel functions of recruitment, selection, training, performance appraisal, compensation and benefits programs, and regulations governing personnel operations.

### **HRA 385. *Labor Relations* 3 credits**

Organized labor in organizations including labor relations, union security and contracts, collective bargaining, grievance processing, and third party resolution.

**HRA 391. *Computer Technology* 3 credits**

A conceptual “hands-on” introduction to computer terminology, technology, and applications in health and human services organizations.

**HRA 392. *Marketing Health and Human Services* 3 credits**

Principles of marketing and their application in health and human services including market research, market targets, market segmentation and strategic planning as well as marketing's role in management, public relations, advertising, and development.

**HRA 395. *Health Services and Systems* 3 credits**

Historical development of health services and systems, health insurance, government regulation, and current issues in the organization and delivery of health services.

**HRA 396. *Legal Aspects of Health Care* 3 credits**

Impact of legal factors affecting patient care, operations, and administration of health and hospital systems.

**HRA 397. *Health and Hospital Administration* 3 credits**

Administrative issues and problems in health and hospital systems with emphasis given to hospital organization and administration.

**HRA 300. *Directed Study* 3 credits**

Allows the student to pursue an area of interest under the guidance of a faculty person. A fee, in addition to tuition charges, may be charged. Approval by the faculty person and the Program Director is required.

**HRA 399. *Special Topics* 3 credits**

Selected topics of current interest in health and human services administration are offered on a variable basis. Selected students may elect to take a 200 clock hour administrative internship in a health or human-service organization.



# Master of Business Administration Program

Joseph A. Hammond, Director

## REQUIREMENTS

### *Admission*

The basic policy of the school is to select for the MBA program those men and women whose intellectual ability and leadership potential qualifies them for careers in management. Admission is based on the following criteria: performance on the Graduate Management Admission Test (GMAT), overall grade point average, rank in graduating class, managerial experience and other earned graduate degrees.

Applicants should have a total of at least 950 points based on the formula:  $200 \times \text{the undergraduate G.P.A.} + \text{GMAT score}$ . A maximum of 6 graduate credits may be transferred to the University of Scranton. All foundation course credits may be transferred to the University of Scranton. Foreign students, whose native language is not English, are required to demonstrate their proficiency in English by achieving a score of at least 500 in TOEFL.

Applications should be made two months in advance of the entering dates in September and February.

### *Program of Study*

MBA students attend classes in the evenings on either a full-time or part-time basis. Students may specialize in Accounting, Finance, Personnel and Labor Relations, Production and Operations Management, or Marketing. The MBA curriculum includes: foundation courses, core courses and advanced electives. The curriculum is designed for students with or without an undergraduate business degree. Students with business degrees can normally complete the MBA program by satisfying the core and advanced elective requirements. Students with non-business undergraduate degrees will be required to complete some or all of the foundation courses. The foundation courses include: micro and macro economic theory, accounting and information systems, quantitative methods and statistics, management principles, marketing, finance and business law.

The core of the MBA program is designed to give students broad-based management skills at the graduate level. Courses in managerial economics, managerial accounting, management science, organizational behavior, marketing, finance and business policy allow students to widen their perspective and communicate more effectively with managers in other functional areas.

Advanced electives allow the student to deepen his knowledge in



one functional area of business.

Students with recent undergraduate degrees in Business Administration or accounting should be able to complete the MBA program with 36 graduate credit hours. Students without the undergraduate business degree may be required to take additional credits in the foundation area. The foundation courses required will be named in the letter of admission. These foundation courses may be challenged by examination which may be taken only once. Such challenge exams are given on the first Friday during the months of October and March. Application forms for such examinations can be obtained from the Dean of the Graduate School (see fee schedule for cost of examination).

### **CANDIDACY**

Students seeking the MBA degree must, after completing nine graduate credits in Business Administration, file an application for candidacy. On receipt of this application and the completion of nine graduate credits in Business Administration, the student's record will be reviewed by his mentor and the Director of MBA to determine that all prerequisites have been met and to appraise his/her potential for successful completion of graduate work and growth in his/her field. No one will be permitted to continue his/her credits toward the MBA degree until he/she has been formally admitted to candidacy.

### **GRADUATE MANAGEMENT ADMISSIONS TEST**

This examination is an aptitude test designed to measure certain mental abilities that have been found to be important in the study of business at the graduate level. This test will be required of all students.

Application forms for the GMAT may be obtained from the Office of Career Services or by writing to the Educational Testing Service, Box 966, Princeton, New Jersey, 08540. Applicants should be *registered* with ETS to take the exam at least three weeks prior to the testing date. The exam will be administered on this campus on the following dates: October, January, March, and June.

### ***Curriculum***

The curriculum is designed to conform with AACSB standards. Courses are given at three levels (Foundation, Core, Advanced Electives) in several functional areas. Students must complete any foundation requirements before taking Core and Advanced courses. MBA students must declare a major in either Accounting, Production and Operations Management, Personnel and Labor Relations, Marketing, or Finance. A student must have the undergraduate degree in accounting to declare a graduate accounting major. Three elective

courses must be taken in the student's major field; one elective course may be taken in any MBA field.

## Course Descriptions

### FOUNDATION AREA COURSES

**Econ 11 & 12. *Principles of Econ I & II* 6 credits**

Determinants of aggregate economic activity, monetary and banking system, the composition and fluctuation of national income as influenced by monetary and fiscal policy; operation of the price system as it regulates production, distribution and consumption, international economics.

**Bus 201. *Essentials of Macro-Micro* 3 credits**

This course is intended only for students needing prerequisites in economics. The course will develop the theory of markets and will then focus on the problems that arise from market failures and the issues surrounding government solutions. The problem areas to be covered will include monopoly power in product and labor markets, the need for consumer protection, economic instability and inequity of market results.

**Acc 3. *Financial Accounting* 3 credits**

(For non-accounting majors) A survey of the topics in Acc 1 and 2. Coverage is directed toward the reporting of financial information to interested parties. 3 hours lecture.

**Acc 4. *Managerial Accounting* 3 credits**

(For non-accounting majors) (Prerequisite, Acc. 3) Accounting techniques required in compiling and interpreting selected data for decision making. Includes such areas as cash and working capital flows, profit planning, statement analysis, capital investment decision, planning and controlling operations. 3 hours lecture.

**Bus 202. *Survey of Managerial and Financial Accounting* 3 credits**

This course is intended only for students needing prerequisites in accounting. The course will cover reporting financial information and accounting techniques for decision making, planning and controlling operations.

**Math 3 & 4. *Quantitative Methods I & II* 6 credits**

Finite mathematics covering functions and graphs, matrix methods, linear programming and probability, differential and integral calculus.

**Mgt 15. *Statistics for Business I* 3 credits**

(Prerequisite, Math 4) An introduction to the elements of probability theory. The major probability distributions are covered with an emphasis on business applications. Basic concepts in decision theory are also introduced. 2 hours lecture and 1 hour lab.

**Mgt 109. *Introduction to Management Science* 3 credits**

A survey of the quantitative techniques which are used by modern managers. Topic coverage will focus on model building, linear and non-linear programming methods and simulations. Emphasis placed on the use and limits of these quantitative methods.

ACADEMIC AREAS	FOUNDATION AREA COURSE UP TO 30 CREDITS PRESCRIBED AT ADMISSION	M.B.A. CORE (24 credits)	ADVANCED ELECTIVES (12 credits)	M.B.A. MAJOR
Economics	Econ 11 & 12 or Bus 201	Bus. 305 Mgr Econ	421 Adv Auditing	Accounting
Accounting	Acc 3 & 4 Acc 3 & 4 Bus 202	Bus 325 Acct for Mgmt	422 Adv. Fed. Taxation 423 Adv. Managerial Acct. 424 Adv. Finan. Acct. 429 Special Topics Sem.	
Quantitative Mgmt & Information Systems	Math 3 & 4 or Bus 209 Mgt 15 & Mgmt 109 or Bus 210	Bus 342 MS I (Applied Statistics) Bus 343 MS II (Ops. Management)	441 Production Operations 442 Applied Op. Research 443 Applied Decision Analysis 444 Business Forecasting Models 445 Information Systems Analysis 449 Special Topics Sem.	Production & Operations Mgmt.
Behavioral	Mgmt 108	Bus 350 (Org. Behv.)	451 Personnel Mgmt 452 Labor Relations 453 Organizational Theory 454 Group Dynamics 459 Special Topics Sem.	Personnel & Labor Relations
Marketing	Mar 107	Bus 360 (Marketing Mgmt)	461 Mkt Research 462 Promotion 463 International Mkt. Mgmt. 464 Consumer Behavior 469 Special Topics Sem.	Marketing
Finance	Fin 110	Bus 380 (Fin. Mgmt.)	481 Financial Institutions 482 Advanced Fin. Mgmt. 483 Investments 484 International Finance 489 Special Topics Sem.	Finance
Legal Envi. Policy	Mgt 9	Bus 390 (Bus. Policy)		

**Bus 209. Quantitative Methods I****3 credits**

An introduction to various mathematical tools used in the solution of business problems. Topics include: sets, vectors, matrices, system of linear equations; functions; differential calculus of single and several variables, classical optimization and integral calculus. Introduction to computer software and its use in business.

**Bus 210. Quantitative Methods II****3 credits**

(Prerequisite, Bus 209 or its equivalent) Sample space, basic probability concepts, random variables, discrete and continuous probability distributions, sampling distributions. Linear programming problem formulation. Simplex method. Duality and sensitivity analysis. Transportation and assignment problems.

**Mgt 108. Organization and Management****3 credits**

The major concepts of managerial action dealing with planning, organizing, directing and controlling. Knowledge of these key aspects of the management process will provide the student with a framework for decision making. 3 hours lecture.

**Mar 107. Managerial Marketing****3 credits**

Managerial analysis of the marketing activities in business firms and institutions, including issues on macroenvironment, consumer behavior and international markets. Emphasis on segmenting target markets and developing marketing policies, such as product introduction, promotional campaigns, channels of distribution and pricing targets. 3 hours lecture.

**Fin 110. Corporation Finance****3 credits**

(Prerequisite, Acc 2 or 4, Mgt 6) A comprehensive study of the financing decision within a corporation. Analysis of risk and return, capital budgeting under conditions of uncertainty and financial structure.

**Mgt 9. Legal Environment****3 credits**

The nature, sources, formation and application of law. The judicial function, the court system, litigation and other methods of resolving disputes, constitutional law; legislation, law from judicial decisions, law by administrative agencies, regulation of business activity from taxation of business. Introduction to the law of contracts, antitrust laws, business organizations and security regulation, the law of employment, consumer protection, environment and pollution control.

**M.B.A. CORE COURSES****Bus 305. Managerial Economics****3 credits**

(Prerequisite, Bus 342) An intensive study of the problems of value and costs, including demand theory, empirical demand analysis, production theory, cost theory, linear programming applications in resource allocation and cost analysis, empirical cost analysis, market structure and pricing theory, pricing practices and the role of government in the private economy.

**Bus 325. Accounting for Management****3 credits**

(Prerequisite, Bus 202 or Acc 4) Emphasis is placed on ways to use, analyze, and interpret accounting data in planning and controlling organizational activities. Selected techniques required for analysis and managerial decision making are introduced.

**Bus 342. Management Science I (Managerial Statistics)****3 credits**

(Prerequisite, Bus 210) Statistical methods used by managers to analyze qualitative

as well as quantitative data will be discussed. Such topics as regression and correlation analysis, design of experiments, and nonparametric methods are presented from a decision making approach. Emphasis will be on problem formulation and output analysis rather than on computation.

**Bus 343. *Management Science II* 3 credits**

(Prerequisite, Bus 210) The quantitative approach to managerial problems of planning and controlling the design and operation of production and other business systems. Topics include: mathematical programming, decision analysis, simulation, Markovian and queueing models, project management techniques, management of production and inventory systems.

**Bus 350. *Organizational Behavior* 3 credits**

(Prerequisite, Mgt 108 or equivalent) A primary goal of an organization is the improved performance of individuals and work groups within the organization. Organizational behavior is the field of study that investigates and explains those concepts or theories which are vital in current management practices dealing with job performance.

**Bus 360. *Marketing Management* 3 credits**

(Prerequisite, Mar 107) Analysis of the conceptual and tactical mechanisms of marketing management with emphasis on how today's firms and institutions mobilize their resources to achieve market penetration, sales volume, and satisfactory profits. Marketing planning with control and implementation of strategies as major aspects of decision making. Also, exploring market opportunities and formulation of marketing policies (marketing mix) exemplified through case studies.

**Bus 380. *Financial Management* 3 credits**

(Prerequisite, Fin 110) Principles of policy information in the modern corporation; the institutions, instruments and customary procedures that influence the determination of corporate policy; and the reasons for choices in seeking solutions to specific financial problems. A case approach will be utilized to cover problems of working capital management, capital budgeting, and capital structure. Computerized approaches to financial problems will be emphasized.

**Bus 390. *Business Policy* 3 credits**

(Prerequisites, Bus 305, 325, 343, 350, 360, 380) Starting with conceptual and institutional foundations of business, the course covers the philosophy, history and ethics of business policy, culminating the specific areas of policy, accounting, finance, marketing and management. This course should be taken in the last semester of the student's program, and only after all other core and major courses are completed.

**ADVANCED ELECTIVES**  
**Accounting**

**Bus 421. *Advanced Auditing* 3 credits**

(Prerequisites, Acc 121 or its equivalent) Audit of income statement and selected balance sheet items. The Audit Report, internal auditing, ethics of the profession. Audit case problems. Admission with consent of instructor.

**Bus 422. *Advanced Federal Taxation* 3 credits**

(Prerequisites, Acc 123 or its equivalent) Corporation Income Taxes, with special



emphasis on current Internal Revenue Service regulations. Partnerships included. Admission with consent of instructor.

**Bus 423. *Advanced Managerial Accounting* . 3 credits**  
(Prerequisites, Acc 113, Acc 114 or Bus 325) Decision models including pricing factor and product combinations. Examination of the problems of control in organization including transfer pricing and performance evaluation.

**Bus 424. *Advanced Financial Accounting* 3 credits**  
(Prerequisite, Undergraduate accounting degree) Critical examination of the treatment of major items in the financial statements using conventional (historical cost) accounting. Examination of selected topics including: consolidations, accounting for government and non-profit institutions.

**Bus 429. *Special Topics in Accounting Seminar* 3 credits**

### **Production and Operations Management**

**Bus 441. *Production and Operations Management* 3 credits**  
(Prerequisite, Bus 343) The course will focus on decisions faced by managers in the area of production and operations. Topics covered will include: facility location and layout, production-operation planning and scheduling; and operation control including quality control and inventory control. Emphasis will be focused on the solution to common problems of managers responsible for production or operations.

**Bus 442. *Applied Operations Research* 3 credits**  
(Prerequisite, Bus 343) A course devoted to the study of the theory and application of Operations Research models. Topics are chosen from mathematical programming, decision analysis, production-inventory management, Queueing Theory and Markov Process. Case studies of several applications illustrating different features of Operations Research will be discussed.

**Bus 443. *Applied Decision Analysis* 3 credits**  
(Prerequisite, Bus 342) An overview of decision analysis and modeling under uncertainty. Topics will include: behavioral assumptions and limitations of decision analysis, risk analysis, personal and group utility functions and their applications. Case studies of several applications illustrating different features of decision analysis will be discussed.

**Bus 444. *Business Forecasting Models* 3 credits**  
(Prerequisite, Bus 342) Techniques of business forecasting with emphasis on practical application to different business problems. Topics covered will include the forecasting process, data collection methods. Qualitative methods along with quantitative forecasting models such as regression analysis, exponential smoothing, and the Box-Jenkin technique will be studied.

**Bus 445. *Information Systems Analysis* 3 credits**  
(Prerequisites, Bus 342, 343, 345, 350, 260 and 380) This course introduces the student to the conceptual basis and practical design of management information systems. Identification of information requirements and information flow in an organization will be discussed. Additional topics to be covered include data management, computerized systems, and applications to functional business areas such as accounting, finance, marketing and production.



**Bus 449. *Special Topics Seminar*** **3 credits**  
(Prerequisites, Bus 342, 343, 345, 350, 360 and 380) Application of Quantitative Methods of analysis to research problems in Management, Finance, Marketing, Production Planning, and Management Information systems.

### **Personnel & Labor Relations**

**Bus 451. *Personnel Management*** **3 credits**  
(Prerequisite, Bus 350) Preparation of job descriptions, labor demographics recruitment, interviewing, performance evaluation grievances, government regulations relating to labor.

**Bus 452. *Labor Relations*** **3 credits**  
(Prerequisite, Bus 350) Analysis of human economic, political and technological factors affecting negotiations, interpretation and administrators of collective bargaining agreement between management and labor unions.

**Bus 453. *Organizational Theory*** **3 credits**  
(Prerequisite, Bus 350) Study of the forces both within and outside the organization that determine the structure and processes of an organization. Topics to be covered will include technology and size influences, conflict, boundary roles, matrix structure, political factors, and sociotechnical systems.

**Bus 454. *Group Dynamics*** **3 credits**  
(Prerequisite, Bus 350) Designing individual and group behavior systems, contemporary topics on designing organizational systems for better utilization of human resources.

**Bus 459. *Special Topics in Personnel and Labor Relations*** **3 credits**

### **Marketing**

**Bus. 461. *Marketing Research*** **3 credits**  
(Prerequisite, Bus 360) Marketing Research is studied as the basis for decision making, for analysis of markets, and for evaluation of marketing strategies through systematic gathering of information and evidence. The foundations and methodology of research including behavioral sciences and multivariate analysis are discussed. Research projects are conducted by the class participants and research applications to marketing problems are exemplified.

**Bus 462. *Promotion Management: Advertising and Selling*** **3 credits**  
(Prerequisite, Bus 360) A study of the promotion activities of business firms and institutions; analysis of audience behavior and motivation; communication through mass media and person to person interaction including advertising, personal selling, sales promotion, and publicity; the development of an integrated promotional strategy to generate sales and profits through informing, persuading, and activating middlemen and consumers.

**Bus 463. *International Marketing*** **3 credits**  
(Prerequisite, Bus 360) A study of the managerial problems in international marketing covering factors affecting international markets in different cultural areas of the world.

**Bus 464. *Consumer Behavior***

**3 credits**

(Prerequisite, Bus 360) Study of the basic factors influencing consumer behavior with emphasis on managerial use of consumer decision making models from both economics and the social sciences.

**Bus 469. *Special Topics in Marketing Seminar***

**3 credits**

**Finance**

**Bus 481. *Financial Institutions***

**3 credits**

(Prerequisite, Bus 380) A detailed survey of the more important financial institutions of the United States in order to determine their functions and interrelations in the national economy. Monetary and fiscal policy. Material covered will assist the student to better understand the economic, social and political scene in America.

**Bus 482. *Advanced Financial Management***

**3 credits**

(Prerequisite, Bus 380) A case oriented approach to financial decision making with emphasis on current management, capital budgeting, capital structure, mergers and bankruptcy.

**Bus 483. *Investment Analysis***

**3 credits**

(Prerequisite, Bus 380) The investment markets and financial analysis of various types of investments including industrial, railroad, utility, financial institutions, real estate, government, municipal and foreign securities; the mathematics and mechanics of investments.

**Bus 484. *International Finance***

**3 credits**

(Prerequisite, Bus 380) A detailed survey of the financial decision process of multinational corporations. Topics include, foreign exchange risks, foreign investment decisions, positioning of funds, international banking, import and export financing, multinational accounting rules and tax planning.

# **Department of English**

Dr. John McNerney, Chair and Director of Graduate Program

## **DEPARTMENTAL REQUIREMENTS**

The applicant must, prior to the start of his/her graduate program, possess a baccalaureate degree; and must have completed on the undergraduate upper-division level a minimum of eighteen semester hours in English; and must, further, have a quality point index of not less than 2.5 (of a possible 4.0) in his/her upper-division courses in English. Also, the Department ordinarily requires all applicants to take the general and specialized GRE examinations. The applicant will, normally, be admitted to candidacy after the successful completion of nine graduate credits in English and the recommendation of the Departmental graduate committee. Applicants who have achieved satisfactory scores on the advanced literature section of the Graduate Record Examination prior to admission (scores to be reviewed by the graduate committee) may be considered degree candidates immediately. No student who has not been formally notified of his/her admission to candidacy may continue to take credits towards a degree (after nine hours of course work).

### **Course Requirements**

#### **A. Master of Arts in English**

Candidates for the degree of Master of Arts in English may select a thesis or non-thesis program.

##### **A-1. Thesis Program**

The M.A. thesis program will require the student to complete successfully 27 credits in courses in English, as outlined below; pass a comprehensive requirement; and present a critical study (thesis) of no fewer than 12,000 words. The comprehensive examination for the M.A. (thesis) will be an oral examination, in which the candidate will defend his thesis and be questioned on literary material from the area of his thesis and two other major areas of English or American literature. The specific areas for each student's oral examination will be established by the student and his mentor, based on the thesis topic. A summary description of the procedures to be followed in the preparation and defense of theses can be obtained from the secretary of the English Department (Room T458).

The specific course requirement for the M.A. (thesis and non-thesis) is English 200: Introduction to Research (three credits). The remaining 24 hours of credit for the M.A. (thesis) are to be taken in courses approved by the student's mentor. These courses should be so chosen as to combine student interest in certain periods and

genres, and coverage, both in range and depth, of the fields of British and American literature. The 33 credit hours necessary for the M.A. (thesis) are completed with the six hours granted for the thesis.

#### A-2. Non-Thesis Program

The M.A. non-thesis program requires the student to complete successfully 33 credits in courses in English, including English 200, and pass a written comprehensive examination. The examination, which is given several times a year, as scheduled by the Graduate Office, will be based on a reading list of works selected from the major areas of British and American literature. The questions require students to demonstrate their knowledge of those works, as well as the literary history of which they are a part and the characteristics of the genres they exemplify. There are several such lists, and each one is the basis for several examinations. The lists and the tests are rotated regularly. Students should ask the Department Chair for a Reading List after they have completed nine credits of graduate study, and begin then to prepare for the Comprehensive Examination. They should apply at the Graduate Office to take that examination some time during the year in which they expect to complete their degree requirements.

#### B. Master of Science in English—Correlated Program

For a Master of Science in English correlated with education, kindly refer to the criteria outlined by the Department of Education, Secondary Education: Correlated Program for application procedures and degree requirements.

### COMBINED UNDERGRADUATE-GRADUATE PROGRAMS

A special five-year program leading to the Master of Arts degree in English is offered to qualified undergraduate students which makes it possible to obtain the A.B. and M.A. degrees within the period cited. Interested students should contact the Chairman of the Department for details.

## Course Descriptions - English

### English 200. *Introduction to Research*

*3 credits*

A survey of a selective list of books and periodicals that every student of literature should read; also an introduction to the general science of linguistics.

### English 201. *History of the English Language*

*3 credits*

An investigation of the principal phonemic, morphological, and orthographic changes governing the evolution of the English language from Anglo-Saxon times to the present; although the approach will be historical, due emphasis will be accorded the study of our language as a living cultural entity,

English 205. *Modern Grammar in the English Curriculum* 3 credits  
The theory of transformational grammar, studied against such other theories as prescriptivism, structuralism and case grammar, in practical application to the high school and college English curriculum.

English 206. *Composition in the English Curriculum* 3 credits  
Designed for both high school and junior college English teachers, this course will review traditional composition programs and approaches, explore innovative programs and methods, and consider the place of composition in a variety of curricula.

English 207. *Literature in the English Curriculum* 3 credits  
In considering strategies for selecting, organizing, and teaching high school literature, this course will explore the central question of what a sequential, well-balanced, efficient program in literature should consist of. It will include adolescent literature, themes, genres, socio-political movements, thematic and short courses, autotutorial devices or systems, and inquiry methods.

English 211. *Medieval English Literature* 3 credits  
A critical study of the major literary works in English of the Middle Ages, from *Beowulf* through *Everyman*.

English 214. *Chaucer I: The Early Poems* 3 credits  
Close study of Chaucer's poetry other than *The Canterbury Tales* with particular emphasis on *Troilus and Criseyde*.

English 215. *Chaucer II: The Canterbury Tales* 3 credits  
A detailed examination of the general structure of *The Canterbury Tales* and of the individual tales, with attention to specialized critical tools and techniques, and to various critical approaches to Chaucer.

English 220. *Shakespeare and Other Elizabethan  
Dramatists I* 3 credits  
A careful study of Shakespeare's plays written before 1600, together with selected plays of Marlowe, Kyd, Greene, and Peele.

English 221. *Shakespeare and Other Elizabethan  
Dramatists II* 3 credits  
A careful study of Shakespeare's plays written after 1600, together with selected plays by Jonson, Chapman, Dekker, Beaumont, Fletcher, Tourneur, Marston, Middleton, Massinger, and Ford.

English 231. *Sixteenth Century Literature* 3 credits  
Poetry and prose of the English Renaissance, with special attention to the new birth of poetic form; examination in depth of the great poetic achievements of Sidney, Spenser, and Shakespeare.

English 232. *Seventeenth Century Literature* 3 credits  
A study in depth of the major British authors of the seventeenth century other than Milton.

English 234. *Milton* 3 credits  
An appreciation of John Milton as poet, critic, and innovator, together with a critical survey of the poet's sources, poetical works, and literary forms.



**English 236. *Augustan Studies* 3 credits**

A study in depth of the major works of John Dryden, Alexander Pope, Jonathan Swift, Joseph Addison, Richard Steele, and William Congreve.

**English 238. *Dr. Johnson and His Age* 3 credits**

The work of Johnson and his contemporaries studied in the light of the social, political, and intellectual background of the second half of the eighteenth century.

**English 239. *The English Novel, Defoe through Austen* 3 credits**

Readings of selected novels of the eighteenth and early nineteenth centuries, with emphasis on the literary, social, and intellectual sources of the novel.

**English 240. *Romantic Poetry and Criticism* 3 credits**

An examination of the poetry and critical writings of the major romantic poets. The aim is not an exhaustive survey but an intensive study of several of the following: Blake, Wordsworth, Coleridge, Byron, Shelley, Keats.

**English 243. *Victorian Poetry and Non-Fictional Prose* 3 credits**

An examination of Victorian poetry and non-fictional prose in the light of its social, political, and intellectual backgrounds. The aim is not an exhaustive survey but an intensive study of several of the following: Tennyson, Browning, Arnold, the Pre-Raphaelites, Carlyle, Newman, Ruskin and Pater.

**English 244. *The English Novel, Dickens through Hardy* 3 credits**

Readings in selected Victorian novels in the light of the social, political, and intellectual backgrounds of the age, with emphasis on the artistic development of the novel.

**English 250. *Studies in Modern Poetry* 3 credits**

An intensive study of trends and techniques in such major twentieth century poets as Hopkins, Yeats, Auden, Dylan Thomas, Frost, Stevens and Eliot.

**English 252. *Modern British Fiction* 3 credits**

Readings of selected twentieth century novels in the light of the social, political, and intellectual background of the times. Such major British novelists of the century as Conrad, Joyce, D. H. Lawrence, E. M. Forster, Greene, Waugh, Virginia Woolf, and Muriel Spark will be included.

**English 254. *Modern Drama* 3 credits**

The development of drama (Continental, British, Irish, and American) from Ibsen to the present day. Among playwrights whose works will be read and studied are: Ibsen, Strindberg, Chekhov, Synge, Yeats, O'Casey, Shaw, Osborne, Pinter, Brecht, Anouilh, Ionesco, Beckett, O'Neill, Anderson, Wilder, Inge, and Albee.

**English 256. *American Romanticism and Transcendentalism* 3 credits**

Studies in the major works of Cooper, Poe, Hawthorne, Emerson, and Melville.

**English 257. *American Realism and Naturalism* 3 credits**

Studies in the major works of Twain, Crane, Norris, James, and Howells.

**English 259. *Twentieth Century American Fiction* 3 credits**

Modern American novels and short stories. The period from 1900 to the present will



be covered, emphasizing such major figures as Fitzgerald, Hemingway, Faulkner, Steinbeck, and Barth.

(N.B. Each of the following seminars will involve concentrated study of a single literary figure, movement, or genre. The particular subject of each seminar will vary each year.)

English 270. *Seminar: Special Studies in English Literature* 3 credits

English 271. *Seminar: Special Studies in American Literature* 3 credits

English 272. *Seminar: Special Studies in Comparative Literature* 3 credits

English 280. *Afro-American Literature* 3 credits

An introductory survey of Afro-American literature, stressing an in-depth examination of the works of Afro-Americans in poetry, song, drama, the novel, the essay, and the slave narrative. Emphasis will be placed on the relationship between the Afro-American experience and the African experience. The period covered is from the founding of the American nation to the present day.

A tentative cycle indicating when courses will be offered is available from the Department. Please see the chair.

# Department of History

Dr. Michael D. DeMichele, Chair

Dr. John L. Earl III, Director of Graduate Program

## DEPARTMENTAL REQUIREMENTS

The applicant must possess the baccalaureate degree and should as an undergraduate have completed a minimum of 18 upper-division semester hours in History. The applicant should have a Quality Point Index of not less than 2.6 (based on 4.0 scale) in all his/her undergraduate history courses or have attained a score of 500 on the General Aptitude Test of the G.R.E. or an equivalent score in other nationally recognized tests. The student will be considered as non-matriculated until the successful completion of nine graduate credits in History and formal application to the Department for candidacy. In the event that significant gaps occur in the student's undergraduate program, additional undergraduate history courses may be specified by the mentor. The student's acceptance as a candidate will be recommended by the Department after its appraisal of the student's capability for continued growth as a graduate student, and approved by the Dean of the Graduate School. No student may continue to take credits toward the degree unless notified of acceptance as a candidate.

## MASTER OF ARTS IN HISTORY

A. *Duration of Candidacy:* From formal promotion to candidacy, the student will have six calendar years in which to complete the requirements for the degree. For extraordinary reasons, extensions of this time limit may be granted by the Dean of the Graduate School upon recommendation by the Department Chairman.

B. *Course Requirements:* The Master of Arts in History requires successful completion of 30 graduate credits. Of these, 18 credits will be History, and 12 course credits may be from the areas of Political Science and Social Studies which will serve as the minor field for the degree.

C. *A Thesis or Non-Thesis Program:* A thesis or non-thesis program for the M.A. degree would be at the option of the student. Both the thesis and non-thesis programs entail successful completion of 30 graduate credits (18 in the major and 12 in the minor), and a successful comprehensive examination in the field. The thesis program, however, will require the student to complete successfully a total of 27 course credits and to present an acceptable thesis for which three credits will be granted. The thesis topic will determine the area of credit and must be approved by the student's mentor under whose active direction the thesis shall be satisfactorily

completed. The thesis must be approved by a faculty panel assigned by the Chair of the Department.

D. *Comprehensive Examination*: All candidates for the comprehensive examination in History must have the approval of the mentor, and have completed at least 24 graduate credits in the program. Ordinarily, the comprehensive examination will be a written three hour exam and a one hour oral examination. The exam will be designed and graded by the student's mentor and a faculty panel to test the student's knowledge of the factual and interpretive material basic to the student's field. It will not be limited to the content material treated in the course work. In fact, the mentor will provide the student with a list of books, required reading beyond the course work as essential background for the comprehensive.

E. *Mentor*: Upon admission to the Graduate School in History, the student will be assigned a mentor who will advise the student of all course work and who, if the program includes a thesis, will direct the student's research and writing of the thesis.

#### **FOUR YEAR A.B./M.A. DEGREE PROGRAM**

The Department of History and Political Science offers a special program that enables the qualified student to obtain both a Bachelor's and Master's Degree within four calendar years by accelerating the student's course of study through judicious use of Intercession and Summer School, and by allowing twelve (12) graduate history credits to be applied to both the A.B. and M.A. degree programs. Students may be conditionally admitted to the program upon matriculation at the University and after approval by the Department and the Deans of the Undergraduate and Graduate Schools. Students already enrolled at the University and transfer students may enter the program on a conditional basis up to the end of the second year of studies with the same approval mentioned above.

During the second year in this program, the student will be evaluated for candidacy to both degrees. The student's acceptance will be recommended by the Department and approved by the Deans of the Undergraduate and Graduate Schools. No student may continue into the third year of the program unless duly notified of acceptance as a candidate. Ordinarily, no student will be admitted to candidacy unless that student has maintained an overall Quality Point Index of 3.0 (based on a 4.0 scale) in all courses and a Q.P.I. of 3.1 in all history courses. The same average should be maintained during the entire four year program. Students who fall below these requirements will be subject to candidacy review before continuation in the program.

Students enrolled in the four year A.B./M.A. Degree Program are

required to complete all other degree requirements specified in the catalogs of both the College of Arts and Sciences and the Graduate School of the University of Scranton.

## Course Descriptions—History

**Hist. 200. *Science and Methods of Historians* 3 credits**

A study and application of scientific methodology required for gathering, assessing, synthesizing and documenting historical information with special attention given to American historians and historiography.

**Hist. 205. *America: From Province to Nation* 3 credits**

An examination of selected topics pertaining to the political, diplomatic and social history of the American colonies.

**Hist. 210. *The Shaping of the American Nation* 3 credits**

An examination of selected topics in the period from the adoption of the Federal Constitution to the retirement of Andrew Jackson.

**Hist. 215. *America's Immigration Experience* 3 credits**

An in-depth look at the immigration and Americanization of selected ethnic groups in U.S. society.

**Hist. 220. *American Expansionism* 3 credits**

A study of the expansionist instinct in U.S. foreign policy from the Revolutionary days to modern times.

**Hist. 225. *Pivotal Figures in America's Rise to World Power* 3 credits**

A close examination of the lives of several major figures whose contributions, be they in the areas of politics, religion, business, the fine arts, social reform, or invention, changed the United States from a backwater republic to a leader in the family of nations.

**Hist. 230. *Conflict, Consensus and Reform: America's Response to Industrialism* 3 credits**

A study of the Civil War and Reconstruction, industrial growth and conflict, the American Black, the reform impulses and the transformation of national politics: Bryan, Roosevelt and Wilson.

**Hist. 235. *Conflict, Consensus and Reform: Post Industrial America* 3 credits**

A study of the Great War, the Twenties, the Depression, World War II, the Cold War, and the emergence and erosion of national consensus.

**Hist. 240. *American Style in Art and Architecture* 3 credits**

A study of the social and domestic history of the American people from the colonial era to the Twentieth Century through an examination of how Americans developed living patterns and artistic ambience.

**Hist. 245. *Pivotal Elections in American History* 3 credits**

An examination of the more significant and interesting Presidential elections in the history of the United States.

Hist. 250. *The British Experience* 3 credits  
A study and interpretation of the enduring political, cultural, and social heritage of Britain from the Age of Victoria to the end of Empire.

Hist. 255. *The Soviet Achievement* 3 credits  
An analysis of the social, cultural, economic and political accomplishments of the U.S.S.R.

Hist. 260. *Modern Germany* 3 credits  
A detailed study of modern Germany from the formation of the German Empire to the demise of Adolph Hitler and the reconstruction of Germany after World War II.

Hist. 265. *Artistic and Cultural Achievements of Modern Europe* 3 credits  
A view of the major accomplishments of European Civilization with an emphasis on the various artistic and cultural developments of Europe in the late Nineteenth and early Twentieth Centuries.

Hist. 270. *Anatomy of Modern Europe* 3 credits  
An analysis of the major institutions, problems and accomplishments of Europe since the end of World War II.

## Course Descriptions—Political Science

P.S. 310. *Pragmatic Federalism* 3 credits  
Evolution, development and changes in federal and state relations, with an analysis of the forces influencing these changes in contemporary times.

P.S. 315. *American Constitution and Civil Liberties* 3 credits  
Emphasis on the basis of American constitutionalism, the development of the judicial process, the problems of civil liberties and religious freedom.

P.S. 320. *Urbanization of America* 3 credits  
An analysis of the transformation of American Society from Agrarian-rural to an industrial-urban system.

P.S. 325. *Decision-Making in America* 3 credits  
A study of decision-making in American society and a comparison of empirical studies of decision making with classical and contemporary theories of democracy.

P.S. 330. *American Foreign Policy in the Nuclear Age* 3 credits  
An assessment of American foreign policy and diplomacy in the decades since World War II.

P.S. 335. *The Fate of the Atlantic Community* 3 credits  
An analysis of the problems that have blocked the Atlantic Union, and a study of the theoretical and institutional development of the Atlantic partnership between the United States and Europe.

## Course Descriptions—Social Studies

(Please refer to listings under Education Department)



# Department of Chemistry

Dr. Maurice I. Hart, Chair and Director of Graduate Program

## DEGREE PROGRAMS

Master of Arts programs are offered in two major fields: Chemistry and Biochemistry. The Master of Arts is a thesis degree that is a prerequisite for subsequent work toward the doctoral degree and an important preparation for research activity in industry or elsewhere. Its requirements include thirty credit hours made up of classroom courses, a seminar and independent research under the direction of a faculty member. A language competency examination must also be completed.

Master of Science programs are offered in Chemistry and Biochemistry. The Master of Science is a terminal degree intended to upgrade the student's professional competency and capabilities for work in industry or secondary education. Thirty credit hours of classroom work are required, but not a thesis, a seminar or a language competency examination.

Students may also pursue a Master's degree in Secondary Education that is correlated with Chemistry. Kindly refer to the criteria outlined by the Department of Education, Secondary Education: Correlated Program for application procedures and degree requirements.

## DEPARTMENTAL REQUIREMENTS

Applicants for the Master of Arts or Master of Science programs in chemistry or biochemistry must possess, or be in close proximity to possessing, a baccalaureate degree which includes full-year courses in General and Analytical Chemistry, Organic Chemistry, Physical or Biophysical Chemistry, General Physics and Mathematics through Integral Calculus. Applicants for the Master's degree in Secondary Education that is correlated with Chemistry must have, beside the baccalaureate degree, at least a full year of General and Analytical Chemistry, College Physics and Mathematics. A Grade Point Average of 2.5 is required both overall and in the science courses.

Certain of these requirements may be waived at the discretion of the Department Chair. Students with limited undergraduate course deficiencies may be admitted with the approval of the Chemistry Faculty on condition that such deficiencies are corrected concurrently with their initial graduate courses.

## COURSE REQUIREMENTS

### A. Core Courses

Core Courses are those, within each program, that are required



of all candidates. Since these are the fundamental courses that form the basis of the comprehensive examinations, it is essential that they be taken first in any candidate's program before any electives. Neglect of this requirement can result in a postponement of a timely reception of the degree.

Core courses for the Master of Arts and Master of Science degrees in Chemistry are as follows: Chem. 202, 211, 218, 221, 222, 241 and 242. The Chem. 218 requirement will be waived for those individuals who have previously taken an equivalent instrumental analysis laboratory course.

Core Courses for the Master of Arts and Master of Science degrees in Biochemistry are as follows: Chem. 211, 218, 222, 233, 234 and 242. The Chem. 218 requirement will be waived for those individuals who have previously taken an equivalent instrumental analysis laboratory course. With permission, Chem. 245-246 may be substituted for Chem. 242 for those with a less complete background.

Core Courses for the Master's degree in Secondary Education that is correlated with Chemistry are Chem. 202, 211, 222, 245, and 246.

#### B. Electives

Elective courses beyond the Core Courses will be chosen from among the graduate courses offered by the Chemistry Department. In the Master's degree program in Secondary Education that is correlated with Chemistry, the mentor may allow students to fulfill their requirements with other courses in Chemistry.

#### C. Candidacy

Candidacy for the degree is awarded by the Department upon the successful completion of three Core Courses of graduate work.

#### D. Comprehensive Examinations

Candidates for the Master of Arts or Master of Science degrees in Chemistry and Biochemistry must successfully complete comprehensive examinations in each of the six Core Courses required of their programs. No comprehensive examination may be taken until the corresponding Core Course has been completed. Students may repeat failed portions of these examinations twice. All six parts of the examination must be passed before graduation is possible.

#### E. Course Load

The normal full-time semester load for a graduate student is 9-12 credits. The degree will ordinarily require 3-4 semesters of work.

## F. Thesis

Master of Arts candidates in Chemistry and Biochemistry are required to do independent research and write a thesis.

Early in the program, each student should choose a research director, decide with him/her on a project and then progressively carry out the necessary laboratory experimentation. When the work is complete, it must be reported in a thesis which is publicly defended before the Chemistry Department. The credits awarded for the thesis (Chem. 255) can vary from 2 to 6, depending on the needs of the student.

## TEACHING FELLOWSHIPS

A limited number of teaching fellowships are available in the Department of Chemistry. Fellows, who are and must remain M.A. candidates, are responsible for four three-hour undergraduate laboratory sections a week during the two regular semesters. Compensation includes a stipend and waiver of tuition and some fees. Application for fellowships must be made to the Graduate School of the University.

## COMBINED UNDERGRADUATE-GRADUATE PROGRAM

A special program leading to the Master's degree in Chemistry or Biochemistry is offered to qualified University of Scranton undergraduate students, which makes it possible to obtain both the Bachelor of Science and Master of Arts degrees within a period of four or five years. Interested students should contact the Chair of the Chemistry Department for details.

## Course Descriptions—Chemistry

Chem. 202. *Advanced Inorganic Chemistry* 3 credits

Theoretical concepts and their application to the reactions and structure of inorganic compounds. Introduction to coordination chemistry. Coordination chemistry and related topics; physical methods, reaction mechanisms.

Chem. 211. *Advanced Analytical Chemistry* 3 credits

Theory, description, and application of modern analytical techniques with emphasis on spectroscopy, potentiometry, chromatography, electrochemistry, and radiochemistry.

Chem. 213. *Electro-Analytic Chemistry* 3 credits

Theory and applications of potentiometry, polarography, amperometry, coulometry, and other analytical methods.

Chem. 214. *Applied Spectroscopy* 3 credits

The use of ultraviolet, visible spectroscopy, infrared spectroscopy, nuclear magnetic resonance spectroscopy and mass spectroscopy as tools for the identification of

organic compounds. The course will include laboratory work using these instruments.

**Chem. 218. *Analytical Methods* 3 credits**

Laboratory practice with special analytical apparatus and methods used for process and control, and for research. (Lab course—lab fee charged)

**Chem. 221. *Structural Organic Chemistry; Woodward-Hofmann Theory* 3 credits**

A discussion on an advanced level of the most important features of structural theory, such as stereochemistry, aromaticity, resonance and modern methods of structural determinations. Applications of Woodward-Hofmann theory are also discussed.

**Chem. 222. *Mechanistic Organic Chemistry* 3 credits**

A consideration of the most important means of determining the detailed pathways of organic reactions. Substituent effects on rates of reactions are discussed. Mechanisms proceeding via polar, nonpolar and radical intermediates, including some biochemical reactions, are considered.

**Chem. 223. *Theoretical Organic Chemistry* 3 credits**

A study of methodology of determining the relationship of structure to reactivity, the mechanisms of important reaction types and the factors that can influence rates and pathways. (Prerequisite, Chem. 222)

**Chem. 224. *Heterocyclic Chemistry* 3 credits**

An introductory survey of the structure and reactivity of important types of heterocyclic compounds. (Prerequisite, Chem. 222)

**Chem. 228. *Organic Preparations* 1 credit**

Laboratory performance of a number of typical organic syntheses, with an emphasis on the most modern techniques. (Lab course—lab fee charged)

**Chem. 233-234. *Biochemistry* 6 credits**

Chemistry of carbohydrates, lipids, proteins and nucleic acids. Mechanisms and kinetics of enzyme action. A study of the metabolism, digestion and absorption of carbohydrates, lipids, amino acids and proteins.

**Chem. 235. *Biophysical chemistry* 3 credits**

Topics to include transport phenomena (at both the cellular and the molecular level), optical, mechanical and electric properties of proteins, theory of liquids and solutions, mathematical models in biology, and radiation biophysics. Choice and depth of topics will vary with the interests and abilities of the class. (Prerequisite, Chem. 245-246 or equivalent)

**Chem. 236. *Biochemical Genetics* 3 credits**

Principles and theories of heredity, with special emphasis on biochemical genetics, with their applications to the genetics of microorganisms and human heredity.

**Chem. 237. *Enzymology* 3 credits**

A course on the chemical nature of enzymes with relation to mechanisms of enzyme action and kinetics. Purification and identification of enzymes and isozymes. Biochemical and physiological aspects of enzymes in living systems.

**Chem. 238. *Biochemical Preparations* 1 credit**

Application of modern theories to biological chemical methods. Spectroscopy, chromatography, polarimetry, electrophoresis, ionophoresis. Applied problems in biochemical research using modern biochemical methods. (Lab course—lab fee charged)

**Chem. 239. *Immunological Chemistry* 3 credits**

Physical-chemical properties of antibodies and antigens and their interactions. Emphasis is placed on applications in clinical and diagnostic procedures and on their use as tools in biochemical research.

**Chem. 241. *Advanced Physical Chemistry I* 3 credits**

Quantum mechanics and quantum chemistry, including ab initio approaches to classic problems, perturbational theory, variational theory, time-dependent phenomena and specific applications of molecular orbital theories to organic molecules. Generalized organics of molecules. Spectroscopic applications.

**Chem. 242. *Advanced Physical Chemistry II* 3 credits**

A comprehensive treatment of thermodynamics, including electrochemistry, thermochemistry and chemical equilibrium. Some introduction to the concepts of statistical mechanics and their application to thermodynamics will also be given.

**Chem. 245-246. *Intermediate Physical Chemistry* 6 credits**

A review of the fundamentals of chemical principles, and a treatment of the mathematics requisite for such review. Two semesters.

**Chem. 249. *Chemical Statistics* 3 credits**

This course is designed to study the practical objective of statistics and the analysis of scientific data. Emphasis is placed on those statistical techniques accepted by the major chemical journals. The course includes the recording, manipulating, and summarizing of scientific data. Experimental design, sampling, and hypothesis testing are covered along with the various tests for significance.

**Chem. 252. *Introduction to Research* 1 credit**

A thorough review of the literature of Chemistry in preparation for active laboratory research. The use of such sources as Chemical Abstracts, the Journal Literature, Patent Literature and "Beilstein's Handbuch" will be stressed.

**Chem. 255. *M.A. Thesis* variable up to 6 credits**

(Lab fee charged—\$15.00 per credit)

**Chem. 257-258. *Chemistry on a Secondary Level* 6 credits**

This course is treated on a Lecture-Seminar basis with respect to content and methods dealing with Chemistry in the secondary school curriculum. Two semesters. This is similar to N.S.F. course in Chemistry. Only 6 credits total from this series may be claimed for degree.

**Chem. 261. *Polymer Chemistry* 3 credits**

Introduction to the physico-chemical aspects of polymers: emphasis on structure, properties and application; thermodynamics of polymer solutions; statistical mechanical consideration of polymers; theories of rubber elasticity.

**Chem. 263. *Agricultural Chemistry I***

**3 credits**

A study of the various biochemical pathways of photosynthetic carbon dioxide fixation in plants.

**Chem. 264. *Agricultural Chemistry II***

**3 credits**

A study of soils and nitrogen fixation. The former including composition, physical and chemical properties, and the care of soils for agricultural purposes. The latter studies the chemistry, biochemistry, and physiology of the nitrogen cycle. Chem. 273 is not a prerequisite for Chem. 274.

**Chem. 265. *Special Topics***

**1 credit**

A biochemical approach to chemistry including the structure, function and mechanism of hormonal action and control in normal and diseased states. The course is conducted on a seminar basis. Grading may be administered on a Pass-Fail basis.



# **MASTER OF SCIENCE IN GENERAL SCIENCE**

Dr. Eugene A. McGinnis, Director and Mentor for General Science

## **DESCRIPTION OF PROGRAM**

The Master of Science degree in General Science is assumed to be a terminal degree. It is provided so that teachers at the elementary and junior high level will be able to update their science knowledge and thus be better able to handle the recently introduced curricula with its science content. For science teachers at the secondary level it provides an opportunity to become versed in more than one area of science and consequently enhance their teaching skills.

## **DIVISION REQUIREMENTS**

Applicants must, at the time of application, possess a baccalaureate degree, with an overall Quality Point Index of at least 2.5. Applicants will not be considered to be a candidate for the degree until they have successfully passed three of the core courses. Students may not continue to take credits toward the degree until they have been notified of their acceptance as a candidate.

## **COURSE REQUIREMENTS**

### **A. Master of Science in General Science**

Candidates for the M.S. in General Science must successfully complete thirty (30) course credits. The core courses, of which four are normally required, are: Science 201, 202, 203, 204, 205 and 206. Additional elective courses totalling eighteen credits complete the program. These courses may be chosen, with the approval of the advisor, from course offerings in Biology, Chemistry, Physics, or Mathematics. A scholarly paper, with topic approved by mentor, is also required.

### **B. Master of Science in General Science—Secondary Education**

Candidates for the Master of Science degree in the Secondary Education program must complete 33 graduate credits. Of these 33 credits, 15 will be required in General Science and 18 in Graduate Education. Students in this program will have mentors assigned from both the Physics and the Education Departments to maintain a close liaison with both departments during their program of studies. A scholarly paper, with topic approved by mentor, is also required.



# Course Descriptions—General Science

## COURSE DESCRIPTIONS

### Sci. 201. *History and Philosophy of Science* 3 credits

This course provides an overview of developments in Physical Science from the beginning to the latest developments in Nuclear Energy. It concerns itself not only with the historical aspects of this development, but also with the philosophical implications and socio-cultural effects. Part of the course will be given with a workshop approach and will introduce the student to the latest techniques and equipment utilized in teaching General Science.

### Sci. 202. *Scientific Developments Leading to the Space Age* 3 credits

Introduction to Newton's Laws, conservation of momentum and energy. Study of Rotational motion. Study of harmonic motion and transfer of energy by waves. Probability and statistical concepts in Human Affairs. Heat and Thermodynamics. Electricity and Magnetism. History and development of space science. Part of this course will be given with a workshop approach and will introduce the student to the latest techniques and equipment utilized in teaching General Science.

### Sci. 203. *Modern Physics and its Impact on Man's Progress* 3 credits

Theory of Relativity. Transition from determinism to indeterminism. Birth of Modern Physics. Bohr atom. Wave Mechanics. Radioactivity and the Atomic Nucleus. Overall effect of science on the progress of man. Part of the course will be given with a workshop approach and will introduce the student to the latest techniques and equipment utilized in teaching General Science.

### Sci. 204. *Chemical Concepts and Their Significance in Life* 3 credits

Nature of chemical bonds and reactions. Chemistry of carbon as an organic basis for living organisms. Organic, Inorganic, and Physical chemistry in relation to the origin and continuance of life. Significance of chemical principles in the interaction between living organisms and their environment. Part of the course will be given with a workshop approach and will introduce the student to the latest techniques and equipment utilized in teaching General Science.

### Sci. 205. *Chemical Compounds as a Basis for Life* 3 credits

Biochemical production, function, and nature of the building blocks for the living cell. Chemistry of heredity and information systems. Energy conversions in the living cell. Biochemical aspects of the interaction between organisms, environment and drugs. Part of the course will be given with a workshop approach and will introduce the student to the latest techniques and equipment utilized in teaching General Science.

### Sci. 206. *Biological Structure and Function of Living Organisms* 3 credits

Molecular, psychological and morphological levels of organizations. Differentiation, division and growth of cells. Biological and psychological aspects of genetics, reproduction and ecology. Part of the course will be given with a workshop approach and will introduce the student to the latest techniques and equipment utilized in teaching General Science.

**Sci. 207. *Geology* 3 credits**

The earth: its structure, composition, and agents of construction and destruction. Evolution of the earth and the development of life upon it. Identification of rocks and minerals. Interpretation of topographic and geologic ages.

**Sci. 208. *Astronomy* 3 credits**

Survey of solar systems, stars and galaxies. Observational basis of Astronomy. Discussion of artificial satellites and space vehicles as a modern method of obtaining scientific information. Opportunity for astronomical observation will be provided.

**Sci. 209. *Meteorology* 3 credits**

Study of the atmospheric and the principles associated with atmospheric changes. Methods for observing and recording weather data. Reading and interpreting weather maps. Workshop approach used for part of the course.

**Sci. 210. *Science and the Human Environment* 3 credits**

The effects of the technological, scientific and industrial progress on air, land and water resources of the human environment will be studied. Problems in each of the resource areas will be discussed in detail. Lecture-Demonstration.

**Sci. 211. *Energy and Environment* 3 credits**

The primary goal of this course is to provide a quantitative description of the twin crises of energy and environment. The secondary goal is to demonstrate how science can and must contribute to the understanding and the solution of these complex societal problems. It is hoped that the students taking this course will be led to distinguish between reasoning based on science and emotionalism often associated with propaganda and polemics linked to these crises. Lecture-demonstration of solar energy techniques and systems. Workshop approach used for part of the course.

**Sci. 212. *The Chemistry and Action of Drugs* 3 credits**

Introductory study of physiological and psychological effect of commonly used drugs on humans. Drug action in relation to molecular biological structure and function.

**Sci. 213. *Experiments for General Science Teachers* 3 credits**

This course is designed to illustrate to science teachers how they can make effective use of demonstration methods and experiments in their own classrooms. The course will be a mixture of classroom lectures and laboratory experiences. The student will get "hands on" experience with the demonstrations. It will be shown that many of the concepts of science can be readily and effectively demonstrated with common every day items. Some use will also be made of the commercially available science kits.

# FACULTY DIRECTORY

## OFFICERS OF THE UNIVERSITY CORPORATION

The Rev. J. A. Panuska, S.J., President  
Marilyn Coar, Secretary  
Robert T. Ryder, Treasurer

### Officers of Administration

The Rev. J. A. Panuska, S.J. (1982)  
President of the University (1982)  
Professor of Biology (1982)  
B.S., Loyola College;  
S.T.L., Woodstock College;  
Ph.L., Ph.D., St. Louis University

Richard H. Passon (1984)  
Provost/Academic Vice President (1984)  
Professor of English (1984)  
A.B., King's College;  
M.A., Ph.D., University of Notre Dame

Thomas P. Hogan (1985)  
Dean, Graduate School (1985)  
Professor of Psychology (1985)  
B.A., John Carroll University;  
M.A., Ph.D., Fordham University

William J. Parente (1970)  
Dean of the College of Arts and Sciences (1970)  
Professor of Political Science (1973)  
A.B., Xavier University;  
Ph.D., Georgetown University

George V. Babcock, Jr., D. Et U. (1963)  
Acting Dean, School of Management (1985)  
Associate Professor of Economics (1974)  
A.B., M.A., Ph.L., Boston College;  
M.B.A., New York University;  
Doctoral Studies, Cornell University

Sister Catherine T. McNamee, C.S.J. (1984)  
Dean, Dexter Hanley College (1984)  
B.A., College of Saint Rose;  
M.A., M.Ed., M.A., Boston College;  
Ph.D., Licentiate, University of Madrid

John W. Carlson (1983)  
Associate Dean  
College of Arts and Sciences (1983)  
Associate Professor of Philosophy (1983)  
A.B., St. Mary's College (Calif.);  
Ph.D., University of Notre Dame

John S. Flanagan (1974)  
L/Colonel, U.S. Army—Ret.  
Vice President for Administrative Services (1974); Lecturer in Business Administration (1974)  
B.A., College of William and Mary;  
M.S., University of Alabama

Robert T. Ryder, D. Et U. (1946)  
Treasurer (1974)  
Vice President for Finance (1982)  
Lecturer in Accounting (1963)  
B.S., M.B.A., University of Scranton

John R. Gavigan, D. Et U. (1950)  
Vice President for Student Affairs (1976)  
A.B., University of Scranton

Robert J. Sylvester (1983)  
Vice President for Development (1976)  
B.S., University of Scranton

Bernard R. McIlhenny, S.J. (1958)  
Dean of Admissions (1981)  
A.B., M.A., Loyola University, Chicago;  
S.T.B., Woodstock College

Thomas D. Masterson, S.J. (1976)  
Director of Campus Ministries (1976)  
Assistant Professor of History (1976)  
A.B., M.A., Fordham University;  
Ph.L., S.T.B., S.T.L., Woodstock College;  
M.A., Ph.D., Georgetown University

Kenneth J. Oberembt (1979)  
Director of Alumni Memorial Library (1979)  
B.A., St. John's University;  
M.A., University of Illinois;  
M.S., Columbia University;  
Ph.D., University of Iowa

Glenn Pellino (1980)  
Executive Assistant to the President for Planning and Administration (1983)  
B.A., M.A., St. Louis University;  
Candidate Ph.D., University of Michigan

Charles J. Buckley, D. Et U. (1947)  
Dean Emeritus, Dexter Hanley College (1984)  
Assistant to the Academic Vice President (1984)  
Associate Professor of Business Administration (1968)  
B.S., University of Scranton; M.B.A., Doctoral Studies, New York University

Harry B. Strickland, D. Et U. (1963)  
Liaison for Inter-Governmental Affairs (1983)  
Associate Professor of Business Administration (1968)  
B.S., St. Vincent's College;  
M.L., Ph.D., University of Pittsburgh

## UNIVERSITY OF SCRANTON THE GRADUATE FACULTY

- Panos Apostolidis (1977)  
Associate Professor of Business  
Administration (1977)  
B.A., University of Athens;  
M.B.A., University of Houston;  
Ph.D., University of Arkansas
- Martin D. Appleton, D. Et U.\* (1955)  
Professor of Chemistry (1964)  
B.S., University of Scranton;  
M.S., Ph.D., The Pennsylvania  
State University
- George V. Babcock, Jr., D. Et U.\* (1963)  
Associate Professor of Economics (1974)  
A.B., M.A., Ph.L., Boston College;  
M.B.A., New York University;  
Doctoral Studies, Cornell University
- Galen L. Baril (1975)  
Associate Professor of Psychology (1985)  
B.A., University of Nevada;  
Ph.D., University of Maine
- Rebecca S. Beal (1983)  
Assistant Professor of English (1983)  
A.B., Westmont College;  
M.A., University of Chicago;  
Ph.D., University of Texas
- John A. Beidler (1964)  
Professor of Mathematics/  
Computer Science (1976)  
Chair, Department of  
Mathematics/Computer Science (1980)  
A.B., King's College;  
M.A., Lehigh University;  
Ph.D., The Pennsylvania State University
- Gerald Biberman (1981)  
Assistant Professor of Business  
Administration (1981)  
B.A., M.A., Ph.D., Temple University
- Mrigen Bose (1968)  
Associate Professor of Business  
Administration (1977)  
B.S., Patna University;  
M.S., University of Kentucky;  
Ph.D., University of Utah
- Everett R. Brown (1975)  
Associate Professor of Business  
Administration (1979)  
B.S., Stevens Institute of Technology;  
M.B.A., Ed.D., Temple University
- Charles J. Buckley, D. Et U.\* (1947)  
Associate Professor of Business  
Administration (1968)  
Dean of the Evening College (1963)  
B.S., University of Scranton;  
M.B.A., Doctoral Studies,  
New York University
- Michael C. Cann (1975)  
Associate Professor of Chemistry (1978)  
B.A., Marist College; M.A.,  
Ph.D., S.U.N.Y. at Stony Brook
- Joseph M. Cannon (1959)  
Professor of Education (1974)  
B.S., University of Scranton;  
M.Ed., Doctoral Studies, The Pennsylvania  
State University; Licensed Psychologist
- Ellen M. Casey (1969)  
Professor of English (1981)  
B.S., Loyola of Chicago;  
M.A., University of Iowa;  
Ph.D., University of Wisconsin
- Raymond W. Champagne, Jr. (1967)  
Professor of History (1981)  
A.B., Providence College;  
M.S., Duke University;  
Ph.D., Loyola University of Chicago
- Ying I. Chein (1979)  
Associate Professor of Business  
Administration (1979)  
B.S., National Taiwan University;  
M.S., University of Manitoba;  
Ph.D., University of Kentucky
- Joseph W. Connolly (1983)  
Associate Professor of Physics/Electronic  
Engineering (1983)  
B.S., University of Scranton;  
M.S., University of Illinois;  
Ph.D., The Pennsylvania State University
- Willis M. Conover (1978)  
Associate Professor of Education (1985)  
B.A., B.S., The Pennsylvania State  
University;  
M.S., Ed.D., Montana State University
- Frank P. Corcione (1978-79; 1982)  
Associate Professor of Business  
Administration (1982)  
B.A., Moravian College;  
M.A., Ph.D., Lehigh University
- James J. Cunningham (1968)  
Associate Professor of Counselor  
Education (1971)  
A.B., King's College;  
Ed.M., Ed.D., Rutgers University;  
Licensed Psychologist
- Francis H. Curtis (1966)  
Associate Professor of Education (1980)  
B.S., M.Ed., Doctoral Studies,  
The Pennsylvania State University



- Thomas W. Decker (1977)  
Associate Professor of Human Resources (1982)  
B.A., Dickinson College;  
M.Ed., University of Virginia;  
Ph.D., Ohio State University  
Licensed Psychologist
- Vito Del Vecchio (1969)  
Professor of Biology (1977)  
B.S., University of Scranton;  
M.S., St. John's University;  
Ph.D., Hahneman Medical College  
Graduate School
- Michael D. DeMichele (1967)  
Professor of History (1974)  
Chair, Department of History (1976)  
B.S., University of Scranton; M.A.,  
Ph.D., The Pennsylvania State University
- Anthony J. DiStefano (1968)  
Associate Professor of Physics (1977)  
B.E.E., Brooklyn Polytechnic Institute;  
M.A., Columbia University;  
Ph.D., Stevens Institute of Technology
- Joseph C. Dougherty (1967)  
Professor of History (1967)  
B.A., St. Charles;  
M.A., Ph.D., Georgetown University
- Joseph H. Dreisbach (1978)  
Associate Professor of Chemistry (1983)  
B.S., LaSalle College;  
M.S., Ph.D., Lehigh University
- John J. Dunstone (1966)  
Professor of Psychology (1974)  
B.S., The Pennsylvania State University;  
M.S., Ph.D., University of Massachusetts
- John L. Earl, III (1964)  
Professor of History (1972)  
B.S., M.A., Villanova University;  
Ph.D., Georgetown University
- Joseph T. Evans, D. Et U.\* (1953)  
Professor (1965)  
B.S., University of Scranton;  
M.S., Ph.D., The Catholic University  
of America
- Paul F. Fahey (1968)  
Professor of Physics (1978)  
Chair, Department of Physics (1982)  
B.S., University of Scranton;  
M.S., Ph.D., University of Virginia
- Matthew C. Farrell (1967)  
Professor of Education (1976)  
B.A., M.S., University of Scranton  
Ph.D., Fordham University
- John Q. Feller (1969)  
Professor of History (1976)  
A.B., Loyola College;  
M.A., Ph.D., Catholic University
- Joseph A. Fusaro (1974)  
Professor of Education (1983)  
B.A., Rider College; M.Ed., University  
of Vermont; Ed.D., State University  
of New York at Albany
- Thomas W. Gerrity (1976)  
Assistant Professor of Education (1976)  
B.S., University of Pennsylvania;  
M.S., University of Scranton;  
Ed.D., Columbia University
- A. John Giunta (1960)  
Professor of Business  
Administration (1967)  
B.S., Harpur College;  
M.S., Ph.D., Syracuse University
- Leonard G. Gougeon (1974)  
Professor of English (1982)  
B.A., St. Mary's University, Halifax;  
M.A., Ph.D., University of Massachusetts
- Ralph W. Grambo (1973)  
Associate Professor of Business  
Administration (1978)  
B.S., University of Scranton; M.B.A.,  
Ph.D., University of Pennsylvania
- Ronald J. Grambo, C.P.A. (1976-77; 1980)  
Associate Professor of Business  
Administration (1985)  
B.A., M.B.A., University of Scranton;  
Ph.D., The Pennsylvania State University
- Maurice I. Hart, Jr. (1963)  
Professor of Chemistry (1971)  
Chair, Department of Chemistry  
A.B., Maryknoll College;  
M.S., Ph.D., Fordham University
- John M. Hill (1981)  
Assistant Professor of English (1981)  
B.A., Central College;  
M.A., University of Illinois;  
M.F.A., University of Iowa  
Cand. Ph.D., University of Illinois
- Thomas P. Hogan (1985)  
Dean, Graduate School (1985)  
Professor of Psychology (1985)  
B.A., John Carroll University;  
M.A., Ph.D., Fordham University



- Frank X. J. Homer (1968)  
Professor of History (1984)  
A.B., University of Scranton;  
M.S., Ph.D., University of Virginia
- Robert F. Hueston (1968)  
Associate Professor of History (1976)  
A.B., College of Holy Cross;  
M.A., Ph.D., University of Notre Dame
- Riaz Hussain (1967)  
Associate Professor of Business  
Administration (1985)  
B.S., Forman College;  
M.S., University of Panjab;  
Ph.D., Johns Hopkins University
- Bernard J. Johns, D. Et U.\* (1961)  
Associate Professor of  
Mathematics (1979)  
A.B., Wilkes College; M.A., Bucknell  
University; Doctoral Studies,  
University of Illinois
- Francis X. Jordan (1966)  
Associate Professor of English (1976)  
A.B., M.A., University of Scranton;  
Ph.D., St. Louis University
- Prasadarao V. Kakumanu (1978)  
Professor of Business Administration  
(1984)  
B.S., Andhra University;  
M.S., Patna University;  
M.A., Delhi University;  
Ph.D., Cornell University
- John R. Kalafut (1965)  
Professor of Physics (1974)  
B.S., University of Scranton;  
M.S., University of Delaware
- Raymond L. Kimble (1973)  
Associate Professor of Reading (1973)  
Chair, Department of  
Education (1981)  
B.S., Mansfield State College;  
M.S., State University of New York,  
Cortland; Ed. D., Arizona State University
- Raymond G. Laverdiere (1979)  
Assistant Professor of Business  
Administration (1979)  
B.S., M.B.A., University of Rhode Island  
Ph.D., The Pennsylvania State University
- Francis Marino (1980)  
Assistant Professor of Chemistry (1980)  
B.S., M.A., University of Scranton;  
M.S., Ph.D., University of Massachusetts
- Michael Marino, D. Et U.\* (1965)  
Professor of Education (1970)  
B.S., M.S., Brockport State College;  
Ed.D., University of Buffalo
- Thomas D. Masterson, S.J. (1976)  
Assistant Professor of History (1976)  
Ph.L., Th.L., Woodstock College;  
M.A., Fordham University;  
Ph.D., Georgetown University
- Eugene J. McGinnis, D. Et U.\* (1948)  
Professor (1963)  
B.S., University of Scranton;  
M.S., New York University;  
Ph.D., Fordham University
- John M. McInerney (1966)  
Professor of English (1977)  
Chair, Department of English  
(1981)  
A.B., LeMoyne College; M.A.,  
Ph.D., Loyola University of  
Chicago
- John P. McLean, D. Et U.\* (1940)  
Professor of Business  
Administration (1972)  
B.S., University of Scranton
- John G. Meinke (1976)  
Associate Professor of  
Mathematics/Computer Science (1983)  
B.A., Ed.M., State University of New York  
at Buffalo; M.A.T., University of Montana;  
M.S., Doctoral Studies, Illinois Institute of  
Technology
- Louis D. Mitchell, D. Et U.\* (1961)  
Professor of English (1968)  
B.A., M.A., Fordham University;  
Ph.D., New York University
- John J. Murray, D. Et U.\* (1957)  
Professor of English (1968)  
B.S., University of Scranton; M.A.,  
The Catholic University of America;  
Ph.D., New York University
- Jay Nathan (1983)  
Associate Professor of Business  
Administration (1983)  
B.S., M.S., University of Madras;  
M.E., University of Florida;  
M.B.A., M.A., Ph.D., University of  
Cincinnati
- Hong V. Nguyen (1979)  
Associate Professor of Business  
Administration (1985)  
B.S., State University of New York at  
Brookport; M.A., Ph.D., State University  
of New York at Binghamton
- John J. O'Malley, Jr. (1968)  
Associate Professor of Psychology (1971)  
Chair, Department of  
Psychology (1978)  
B.S., University of Scranton;  
M.S., Ph.D., Ohio University

- Peter P. Poole (1966)  
Associate Professor of Business  
Administration (1976)  
B.S., M.B.A., Northeastern University;  
Cand. Ph.D., The Pennsylvania State  
University
- John J. Quinn, S.J., D. Et U.\* (1956)  
Professor of English (1968, 1975)  
A.B., Holy Cross College; M.A.,  
Fordham University; S.T.B., Woodstock  
College; Ph.L., Weston College;  
Ph.D., University of London
- Joseph L. Quinn, S.J. (1979)  
Assistant Professor of English (1978)  
A.B., Ph.L., A.M., Fordham University;  
S.T.B., Woodstock College;  
A.M., Ph.D., Harvard University
- William W. Rakauskas, D. Et U.\* (1969)  
Professor, Department of English (1979)  
B.S., M.A., University of Scranton;  
Ed.D., Temple University
- George C. Reavy (1977)  
Associate Professor of Business  
Administration (1984)  
B.A., M.S., Wilkes College;  
Ph.D., Lehigh University
- Thomas L. Scott, S.J. (1970)  
Assistant Professor of History (1976)  
B.A., M.A., St. Louis University;  
Ph.D., University of Wisconsin
- Timothy H. Scully, D. Et U.\* (1948)  
Professor of History (1975)  
B.S., M.A., Boston College; Doctoral  
Studies, Fordham University
- Larry R. Sherman (1981)  
Assistant Professor of Chemistry (1981)  
B.S., Lafayette College;  
M.S., Utah State University;  
Ph.D., University of Wyoming
- John K. Stout (1966)  
Professor of Human Resources (1985)  
B.S., M.S., D. Ed., The Pennsylvania State  
University; Licensed Psychologist  
Certified Rehabilitation Counselor
- Joseph A. Szuhay, D. Et U.\* (1964)  
Professor (1974); Chair,  
Department of Human Resources (1974)  
B.S., M.S., Ph.D., University of Iowa;  
Licensed Psychologist  
Certified Rehabilitation Counselor
- Charles E. Taylor (1974)  
Associate Professor of Computer  
Science (1983)  
B.S., M.B.A., West Virginia University
- Charles J. Thoman, D. Et U.\* (1953-1955;  
1966)  
Professor of Chemistry (1973)  
B.S., Spring Hill College;  
M.S., Fordham University;  
S.T.L., Woodstock College;  
Ph.D., University of Massachusetts
- Joe A. Vinson (1974)  
Associate Professor of Chemistry (1978)  
B.S., University of California, Berkeley;  
M.S., Ph.D., Iowa State University
- Bernard D. Williams, D. Et U.\* (1962)  
Professor of History (1975)  
B.S., La Salle College;  
M.A., Niagara University
- John M. Williams (1978)  
Associate Professor of Human  
Resources (1985)  
B.A., Wilkes College; M.Ed., D.Ed.,  
The Pennsylvania State University  
Certified Rehabilitation Counselor  
Board Certified Vocational Expert
- William P. Zahler, Jr. (1973)  
Associate Professor of English (1976)  
A.B., Ohio Wesleyan University;  
M.S., Syracuse University;  
M.A., Ph.D., Kent State University
- Joseph R. Zandarski, D. Et U.\* (1951)  
Professor of Business (1971)  
B.S., University of Scranton;  
M.B.A., New York University;  
Ph.D., University of Pittsburgh
- Gerald J. Zurat (1982)  
Assistant Professor of History and Public  
Administration  
B.A., College of Steubenville  
M.A., D.A., Lehigh University

\*Pro Deo et Universitate Award of Vicennial Service

## PROFESSIONAL LECTURERS

Barbara L. Brundige  
Lecturer in Rehabilitation Counseling  
B.A., Denison University;  
M.A., The Ohio State University

John S. Flanagan  
Lt. Colonel, U.S. Army—Retired  
Lecturer in Business Administration  
B.A., College of William and Mary;  
M.S., University of Alabama

Joseph Joyce  
Lecturer in Business Administration  
B.S., M.B.A., University of Scranton

Robert I. Malloy  
Lecturer in Business Administration  
A.B., M.S., University of Scranton

Michael J. McDonnell  
Lecturer in Human Resources  
Administration  
B.A., St. Bonaventure University;  
M.B.A., University of Scranton

William J. McDonnell  
Lecturer in Business Administration  
B.S., University of Scranton;  
C.P.A., Pennsylvania

Victor Ogilvie  
Lecturer in Rehabilitation Counseling  
A.B., University of California at  
Los Angeles;  
M.A., Syracuse University;  
Ph.D., University of California

John J. Roman  
Lecturer in Elementary Education  
B.S., University of Miami;  
M.S., University of Scranton;  
Cand. Ed.D., Temple University

Adrian A. Samojlowicz  
Lecturer in Human Resources  
Administration  
B.S., Temple University;  
M.B.A., Xavier University

Lorene Schwarzbach  
Lecturer in Human Resources  
Administration  
B.S., Moravian College;  
M.S., M.S., University of Scranton;  
Candidate D.S.W., Columbia University

Philip H. Siegel  
Lecturer in Business Administration  
A.B., Wilkes College; M.B.A., University  
of Cincinnati; Ph.D., New York  
University

Edward C. Tschopp  
Lecturer in Human Resources  
Administration  
B.S., Marywood College;  
M.B.A., University of Scranton

Daniel J. West, Jr.  
Lecturer in Human Resources  
Administration  
B.S., M.Ed., Ph.D., The Pennsylvania State  
University



## UNIVERSITY POLICY STATEMENTS

Changes are effected from time to time in the general regulations and in the academic requirements. There are established procedures for making changes, procedures which protect the institution's integrity and the individual student's interest and welfare. A curriculum or graduation requirement, when altered, is not made retroactive unless the alteration is to the student's advantage and can be accommodated within the span of years normally required for graduation. When the actions of a student are judged by competent authority, using established procedure, to be detrimental to the interests of the University community, that person may be required to withdraw from the University.

The University of Scranton is an independent Catholic, Jesuit liberal arts institution serving men and women. It is committed to equal opportunity in employment and education for all persons without regard to race, color, creed, ancestry, sex, national origin, handicap, or age.



## **Center for Economic Education**

For information and service regarding Economic Education call (717) 961-7665.

The University's Center for Economic Education, sponsored by the Pennsylvania Council on Economic Education, is in affiliation with the National Joint Council on Economic Education.



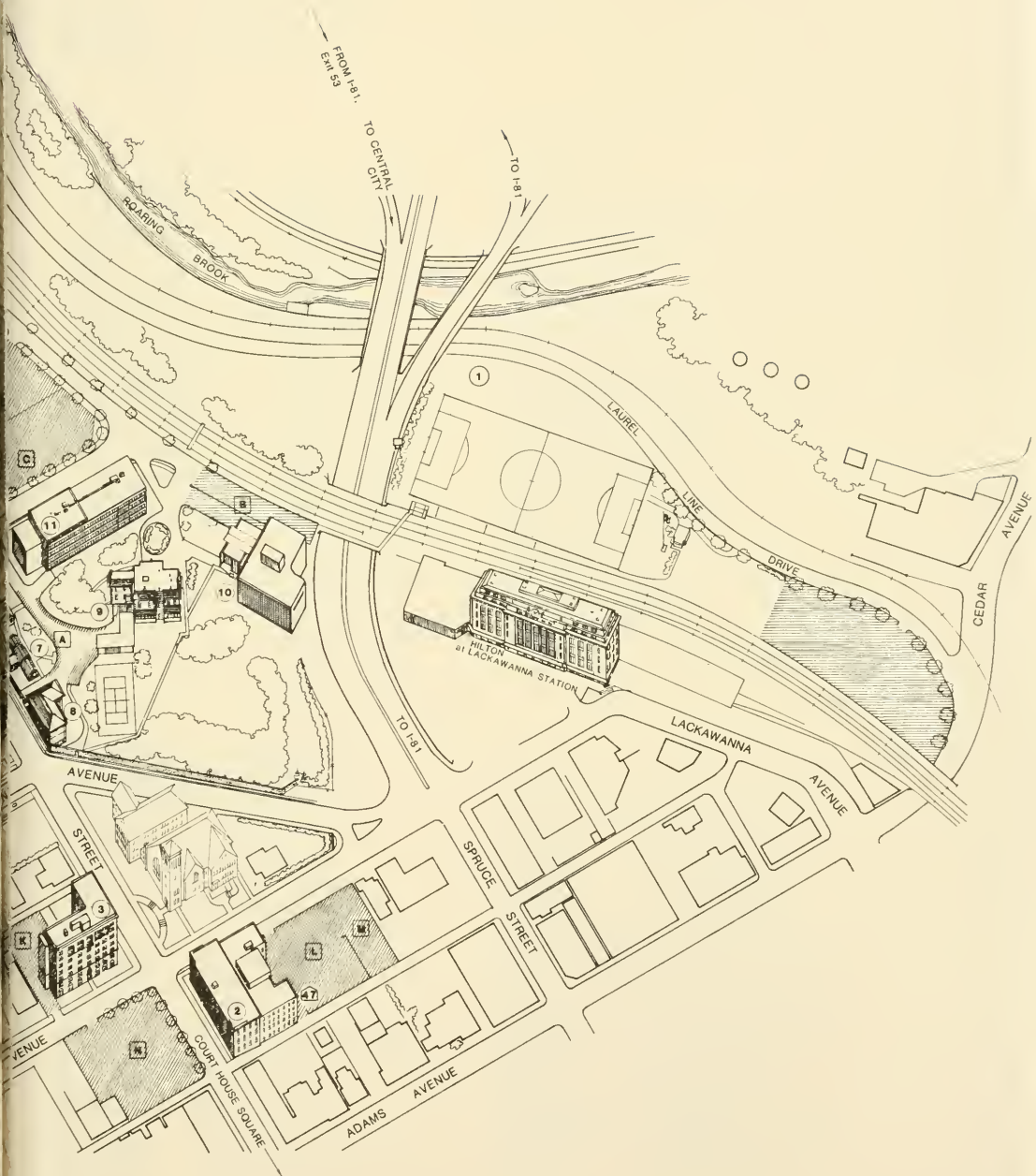






**UNIVERSITY of SCRANTON**  
SCRANTON, PENNSYLVANIA  
**CAMPUS MAP**









## FACILITIES

- |                    |                                      |
|--------------------|--------------------------------------|
| 1 Athletic Field   | 10 Alumni Memorial Library           |
| 2 Jefferson Hall   | 11 Loyola Hall of Science            |
| 3 O'Hara Hall      | 12 St. Thomas Hall                   |
| 4 The Gallery      | 13 Galvin Terrace                    |
| 5 Rock Hall        | 14 Gunster Student Activities Center |
| 6 Alumni House     | 15 John J. Long Center               |
| 7 Greenhouse       | 16 Maintenance Building              |
| 8 Scranton Hall    | 17 Hill House                        |
| 9 Jesuit Residence |                                      |

## RESIDENCES

- |                       |                       |
|-----------------------|-----------------------|
| 18 Residence Complex  | 30 Luzerne House      |
| 19 Martin Hall        | 31 Gonzaga House      |
| 20 Casey Hall         | 32 Blair House        |
| 21 Lynett Hall        | 33 Westmoreland House |
| 22 Hannan Hall        | 34 Fayette House      |
| 23 Fitch Hall         | 35 Tioga House        |
| 24 Dennis Edward Hall | 36 York House         |
| 25 Heley Hall         | 37 Cambria House      |
| 26 McCourt Hall       | 38 Montgomery House   |
| 27 Nevils Hall        | 39 Mercer House       |
| 28 Driscoll Hall      | 40 Wayne House        |
| 29 Lancaster House    | 41 Monroe House       |
|                       | 42 Lackawanna House   |
|                       | 43 Wyoming House      |
|                       | 44 Bradford House     |
|                       | 45 Somerset House     |
|                       | 46 Jerrett House      |
|                       | 47 Jefferson Hall     |

## PARKING

- |                              |
|------------------------------|
| A Visitors                   |
| B Library - Student Parking  |
| C St. Thomas - Students      |
| D St. Thomas - Staff         |
| E Cetlin Court - Staff       |
| F Long Center (rear) - Staff |
| G Long Center - Students     |
| H Mahon Court - Students     |
| I Student Center - Students  |
| J Monroe Avenue - Students   |
| K O'Hara Hall - Staff        |
| L Jefferson Hall - Students  |
| M Jefferson Hall - Staff     |
| N Seeley - Staff             |
| P Rock Hall - Staff          |
| Q Ridge Row - Students       |

## Visitor's Index

## BUILDING/ROOM

- |                             |                             |
|-----------------------------|-----------------------------|
| General Information         | 12 St. Thomas 206           |
| Administrative Services, VP | 12 St. Thomas 106           |
| Admissions                  | 12 St. Thomas 403           |
| Alumni                      | 6 Alumni House              |
| Art Gallery                 | 4 Gallery 2nd floor         |
| Bookstore                   | 14 Gunster Center 1st floor |
| Campus Ministries           | 14 Gunster Center 3rd floor |
| Career Services             | 4 Gallery 202               |
| Central Services            | 5 Rock Hall                 |
| Chapels                     | 5 Rock Hall & St. Thomas 12 |
| College Arts & Sciences     | 12 St. Thomas 304           |
| Computer Center             | 12 St. Thomas 105           |
| Continuing Education        | 12 St. Thomas 401           |
| Counseling Center           | 4 Gallery 222               |
| Dean of Students            | 14 Gunster Center 1st floor |

- |                       |                             |
|-----------------------|-----------------------------|
| Development Office    | 8 Scranton Hall 1st floor   |
| Dexter Herley College | 12 St. Thomas 104           |
| Eagen Auditorium      | 14 Gunster Center 1st floor |
| Financial Aid         | 12 St. Thomas 402           |
| Graduate School       | 12 St. Thomas 308           |
| Maintenance Dept.     | 5 Rock Hall 1st floor       |
| Personnel Services    | 12 St. Thomas 202           |
| Pocono Northeast Room | 14 Gunster Center 3rd floor |
| President             | 8 Scranton Hall 2nd floor   |
| Provost & Academic VP | 12 St. Thomas 310           |
| Public Relations      | 8 Scranton Hall 2nd floor   |
| Purchasing            | 12 St. Thomas 201           |
| Registrar             | 12 St. Thomas 301           |
| School of Management  | 3 O'Hara 502                |
| Student Affairs       | 14 Gunster Center 1st floor |
| Treasurer             | 12 St. Thomas 201           |













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